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June 26, 2013

Mr. Patrick Colcord, On-Scene Coordinator
Indiana Department of Environmental Management
Office of Land Quality
Compliance Response Branch
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MC 66-30-2 Shadeland
Indianapolis, IN 46204-2251

RECEIVED

JUN 2 6 2013

DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND QUALITY

RE: Citizens Energy Group Plummer Field Rollison II Tank Battery Incident Greene County, Indiana IDEM Incident #37035

Dear Mr. Colcord,

In response to your letter dated June 3, 2013, the following narrative describes Indiana Department of Environmental Management (IDEM) Incident No. 37035, which originated at the Rollison II tank battery operated by Citizens Energy Group (Citizens) located within Plummer Field (Greene County Indiana). Plummer Station, the nearest manned Citizens facility to the Rollison II tank battery is located at 2431 South 275 West, Bloomfield, Indiana 47424. To locate the Rollison II tank battery from Plummer Station turn south on County Road 275 West, and travel to the intersection of County Road 275 West and County Road 275 South. Turn East on County Road 275 South and travel to the intersection of County Road 275 South and County Road 250 West. Turn south on County Road 250 West and travel approximately one mile to the Rollison II tank battery located on the west side of the road. GPS coordinates of the Rollison II tank battery are: 38 58.335N, 086 59.252W.

Incident Brief

On May 22, 2013, between approximately 6:00 AM and 9:00 AM, a 16,926 gallon (403 barrel) oil/water separator tank at the Rollison II tank battery released a mixture of crude oil (see attached MSDS sheet) and salt water into the secondary containment berm (firewall) surrounding the tank battery. The crude oil/salt water mixture escaped the firewall and flowed southwest through a hay field and then into a ditch that runs west along the southern boundary of the field before turning south toward White River. A portion of the crude oil and salt water entered the ditch up-gradient of the point where it turns to the south. The release was discovered by Citizens staff during a routine daily inspection at approximately 9:00 AM on the day of the incident. It is estimated that a total volume of approximately 19,320 gallons (460 barrels) of fluid was released. The total volume was composed of 5,040 gallons (120 barrels) of crude oil and 14,280 gallons (340 barrels) of salt water.

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Despite careful inspection of the separator by both Citizens personnel and the manufacturer's representative, the exact cause of the failure could not be determined¹. The most likely explanations for the failure are:

- 1) A pre-existing crack in the tank progressively enlarged over time and eventually caused the tank to fail.
- 2) A rock or other sharp object in the underlying soil initiated a crack in the tank bottom.
- 3) A manufactured defect occurred in the tank bottom.

Regardless of the actual cause, failure of the tank resulted in loss of the entire volume it contained (15,960 gallons (380 barrels). Note: this is less than the total capacity of the tank because of a crossover pipe which forces the oil into a stock tank as the separator fills with fluid. After the separator failed, the Rollison #3 and Rollison #7 oil production wells continued to pump approximately 3,360 gallons (80 barrels) into the oil/water separator until the release was discovered and the wells were shut off.

Notifications & Responding Agencies

IDEM was notified of the incident by Citizens via phone on May 22, 2013 at 10:50 AM. Mr. Patrick Colcord of IDEM, Emergency Response arrived on site on May 24, 2013 at approximately 11:00 AM. Citizens also notified the Indiana Department of Natural Resources (IDNR) via phone on May 22, 2013 at 10:57 AM. Mr. Doug Kearby of the IDNR, Division of Oil & Gas arrived on site on May 22, 2013 at 3:57PM. At 5:15 PM Citizens met with the landowner (Mr. Tony Schantz) to discuss remediation options for the portions of his pasture affected by the release and replacement of the hay damaged as a result of the incident.

Response Activities

Following discovery of the release at approximately 9:00 AM on May 22, 2013, several steps were immediately initiated to stop the flow of crude oil, prevent it from reaching the White River and prevent further migration of crude oil from the vicinity of the Rollison II tank battery and hay field. As previously stated, Rollison #3 and Rollison #7 wells were shut off to stop the production of additional fluids. Citizens personnel then traced the path of the released crude oil across the hayfield and into the ditch from the point where the oil entered to determine the best location for construction of an earthen dam to prevent further migration of fluids downstream.

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¹ It should be noted that Citizens has successfully used fiberglass oil/water separators in the Plummer Oil Field for over twenty years without ever experiencing a similar failure.

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Citizens constructed the earthen dam at a point in the ditch approximately 1.5 miles from White River and approximately ¼ mile from the tank battery. No oil or salt water flowed downstream from the dam site. The dam was composed of native clay soil with large round hay bales placed in the ditch on the upstream side of the dam to stop the flow of released fluids and create a location from which the oil could be removed and recovered. Oil absorbent booms were placed at strategic locations in the ditch to capture the oil as it flowed toward the earthen dam. Oil absorbent booms were also placed at the upstream side of the small recovery pond created by the construction of the earthen dam. Citizens then traversed the affected length of the ditch and removed debris/obstacles to optimize flow to the recovery pond.

A 75-80 barrel tanker truck was brought to the dam site and used to vacuum the crude oil flowing in from the ditch as it reached the boomed area of the recovery pond on the upstream side of the dam. To date approximately 23.5 tanker truck loads (74,025-78,960 gallons) have been removed from the recovery pond and transported to one of the salt water collecting ponds operated by Citizens. The oil will be skimmed off the ponds, placed in a stock tank and the salt water will be returned to the subsurface via Class II injection wells. The tanker truck loads consist mainly of water from the ditch and crude oil flushed from the vegetation in the affected part of the ditch by runoff. Crude oil is carried to the recovery pond by the normal flow of storm water in the ditch eliminating the need to flush the ditch by artificial methods. Citizens personnel continue to monitor the recovery pond and recover crude oil that has flowed in from the ditch. At present, there is virtually no oil reaching the retention pond. On May 23, 2013, a "trash pump" was placed at the earthen dam to allow the clear water in the recovery pond to be pumped down in order to increase the flow of oil and salt water in the ditch and deliver more crude oil to the pond. This measure was also needed to prevent the pond from overtopping the dam in the event of heavy rainfall. The tanker truck was also used to recover a pool of crude oil observed at the point where the ditch turns to the south.

On May 24, 2013, approximately 60 straw bales were delivered to the tank battery site and used to form a barrier just south of the lease road and absorb any material migrating from the vicinity of the tank battery. A similar barrier was built at the south edge of the hay field adjacent to the ditch to prevent movement of oil from the field into the ditch in the event of precipitation. Straw bales were also placed at the southwest corner of the hay field where the field meets the portion of the ditch where it turns to the south to catch any runoff that might enter there. Citizens personnel then removed/recovered residual crude oil and water remaining within the firewall and patched the inside of the structure with clay to prevent any additional release. Citizens continues to monitor the integrity of the structure and remove/recover crude oil and water as needed.

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Remediation Activities

Citizens met with Mr. Patrick Colcord, On-Scene Coordinator (IDEM) on May 24, 2013, to review the details of the incident, discuss methods to prevent further release of oil, and remediate the areas of the site affected by the release. After discussions with Mr. Connor Schantz, the son and representative of the land owner, and Mr. Dave Gelhausen, Citizens Spill Prevention Control & Countermeasure (SPCC) Coordinator, several additional actions were requested by Mr. Colcord and subsequently completed by Citizens.

On May 25, 2013, mowing of the pasture began in preparation for soil excavation, and to remove the grass. This action was undertaken because a significant amount of the oil adhered to the above ground portions of the grass plants as the oil and water flowed through the field away from the tank battery. The tall grass plants in the hay field were mowed as close to the soil surface as possible and the cut grass was allowed to dry and then raked in preparation for loading into lined roll-off dumpsters for disposal by Republic Services in the Sycamore Ridge Landfill near Terre Haute, Indiana. Mowing was completed on May 27, 2013. On May 28, 2013, Republic Services began delivering lined roll-off dumpsters for disposal of the mown hay and excavated soil.

On May 28, 2013, Mr. Colcord and Mr. Connor Schantz marked a large area of the hay field that they believed to be affected by the release with flags and Citizens personnel began excavating up to four inches of soil throughout the flagged area as requested by Mr. Colcord. Soil excavation of the designated area between the lease road and the first line of straw bales (area "A" on Figure 1.) was completed on May 29, 2013. Excavated soil was loaded into lined roll-off dumpsters as they became available or placed in a holding area in the hay field to be subsequently loaded into lined roll-off dumpsters for disposal.

On May 28, 2013, the following Incident Response Work Plan was developed (as outlined by Mr. Colcord) to coordinate remediation activities.

Scrape up hay and surface soil in neavily stained areas near tank battery and in field
beyond first row of hay bales. Collect soil samples periodically.
Disc residual soil and apply amendments.
Continue pumping oily water from dike area (dam site in drainage ditch).
Assess ditch area (and flush if feasible).
Mr. Conner Schantz prefers "letting nature take its course is better than flushing" (with pumping at dam site).
Place hay and soil in roll-off containers for off site disposal.
Assess brine impact.
Assess possible use of surfactants in ditch area.

On May 29, 2013, the straw bale barrier nearest the Rollison II tank battery was relocated beyond the western boundary of the mowed area to allow better access by heavy equipment to

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the excavation area south of the first line of straw bales (area "B" on Figure 1.) while still providing protection against the migration of crude oil into the ditch and hay field to the west of the excavation area. Soil excavation was completed in area "B" on June 5, 2013. The hauling and disposal of excavated material was completed by Republic Services on June 13, 2013. Due to the large amount of soil removed (approximately 382 tons) and the low weight limit imposed by the local roads, lined roll-off dumpsters could only be partially filled, requiring a large number of units to legally and safely haul the material. Limited availability of sufficient roll-off dumpster units extended the time required to complete disposal of the excavated material. A safety meeting was held on May 29, 2013, to discuss a work site safety plan. The plan was drafted by Citizens later that day. On May 30, 2013, Mr. Colcord observed oil exiting a field tile at the western margin of the hay field. Sorbent pads were placed at this point to capture the oil and prevent further migration into the ditch. On May 31, 2013, EFI Global, Inc. was retained by Citizens to collect a series of soil samples from the waste stockpile consisting of the excavated soil.

On June 3, 2013, a 6-inch underflow drain was installed in the earthen dam to reduce pumping requirements and more effectively prevent the possibility of overtopping the dam during heavy rainfall. The same day a meeting was conducted with the land owner, IDEM staff and Citizens to discuss a sampling plan, recommended parameters to be sampled for the hay field and to review strategies for adding and amending the new soil that is to be placed in the excavated area.

On June 4, 2013, the western portion of the hay field was mowed with a bush hog. Citizens personnel reported no visible oil in the newly mowed portion of the hay field. An inspection of the ditch was undertaken on June 5, 2013, from the location where the release entered the ditch and downstream to the earthen dam. No visible oil was observed in the ditch.

On June 10, 2013, the analytical test results for the soil samples collected from the waste stockpiles by EFI Global, Inc. were received. Additional soil sampling was performed by EFI Global, Inc. on June 12, 2013. These samples were collected at locations marked by numbered flags within the area of stressed vegetation to the west/southwest of the excavation area as recommended by Mr. Colcord. The purpose of the samples is to provide a baseline concentration of polynuclear aromatic hydrocarbons (PAHs) and total chlorides. Future samples will be collected from this area to monitor the degradation of these parameters. A total of seven samples from root base to a depth of approximately 3 inches were collected. The analytical results, site plans and figures, photographic and laboratory documentation for the baseline soil samples and the waste stockpiles are attached to this report (Figure 3.).

On June 13, 2013, the failed oil/water separator at the Rollison II tank battery was prepared for removal and it was hauled to the Plummer Station yard on June 14.

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Pending Work

At the time of this report soil and soil amendments acceptable to the land owner have not yet been delivered. On June 6, 2013, Citizens personnel escorted Mr. Tony Schantz to Boyd Trucking in Washington, Indiana to inspect topsoil for potential use to replace the excavated soil. Mr. Schantz verbally approved this soil for the stated purpose and the material should be delivered in June or early July.

Following placement of the topsoil, the area will periodically be disced to aerate the soil and volatilize any residual hydrocarbons. Soil samples will periodically be collected to verify that remediation has been effective and that concentrations of PAHs and total chlorides have degraded to acceptable levels.

Monitoring of surface water in the drainage ditch at the temporary dam site will continue and any residual oil discovered will be collected and transferred to one of Citizens salt water collecting ponds.

Conclusion

The incident originating from the oil/water separator at the Rollison II tank battery involved the release of approximately 19,320 gallons (460 barrels) of oil and water. An estimated 5,040 gallons (120 barrels) of crude oil was released. Citizens believes that all crude oil has been recovered and/or removed from the site except the residual portion which will be addressed through implementation of the Incident Response Work Plan as outlined in this report. The effectiveness of remediation activities will be verified by the collection and analysis of future confirmatory soil samples and monitoring of the recovery pond. Approximately 382 tons of contaminated soil was removed from the hay field at the direction of IDEM and the land owner. New soil and soil amendments acceptable to the land owner will be purchased by Citizens to restore the field to hay production and round hay bales will be cut and delivered to the land owner to compensate for the crop damage caused by the incident. A new oil/water separator is to be installed at the Rollison II tank battery on a rebuilt foundation. The firewall/secondary containment will be fortified with additional clay and tested to insure against leakage.

Please contact Mark Richards, Environmental Specialist, Citizens Energy Group at 317-429-3572 with any questions.

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Mr. Patrick Colcord

June 26, 2013

Sincerely Yours,

Christopher H. Braun, P.E.

Vice President, Energy Operations

Enclosures:

Figure 1: Rollison II Site Map

Figure 2: Plummer Field Area Map

Figure 3: Soil Sampling Map and Analytical Results

Attachment 1: Material Safety Data Sheet for Crude Oil

Attachment 2: Copies of Landfill Receipts

Attachment 3: Photo Documentation of Response & Remediation Activities

Figure 1. Rollison II Site Map

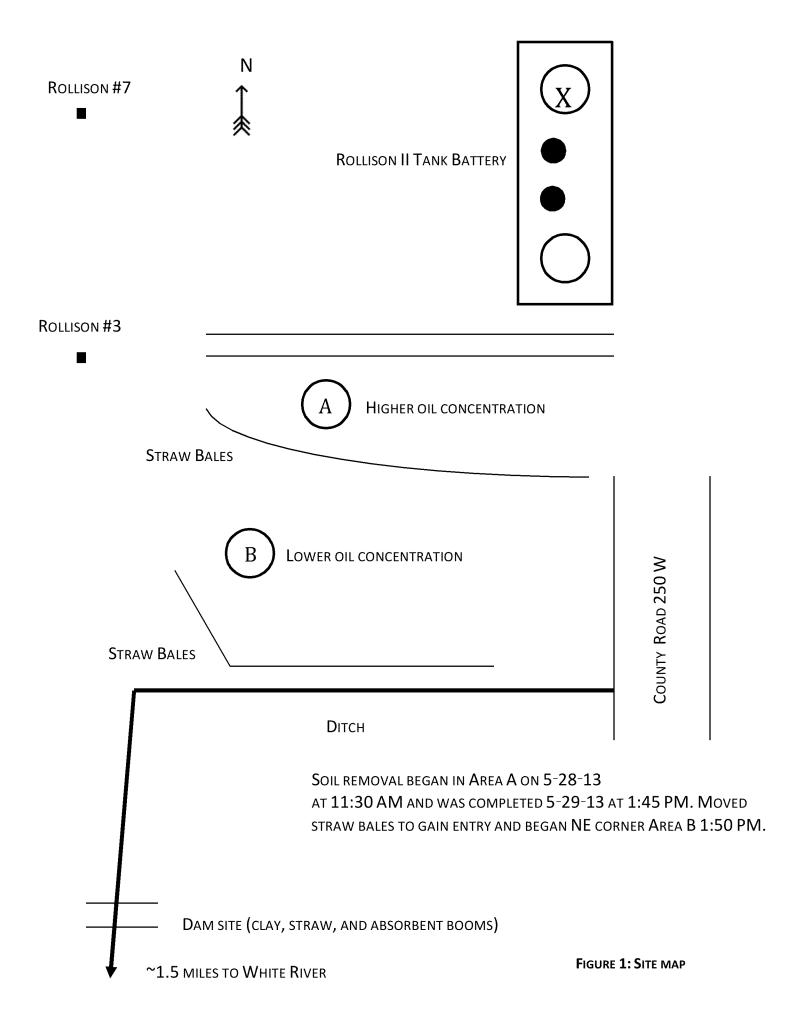
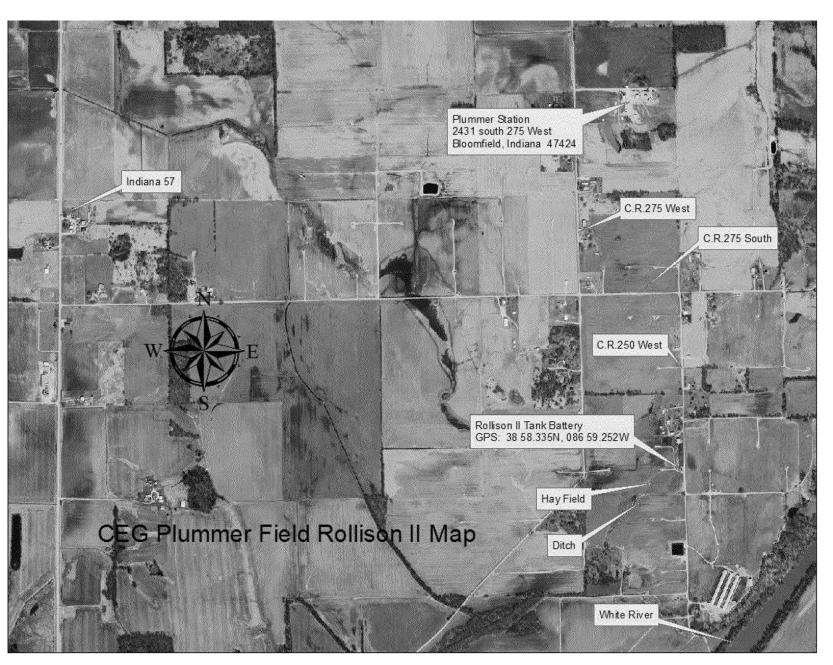


Figure 2. Plummer Field Area Map



EPA-R5-2017-008149_0000236

Figure 3. Soil Sampling Map and Analytical Results



PHASE II ENVIRONMENTAL SITE ASSESSMENT

Plummer Field State Road 57 and County Road 275 South Plummer, Indiana 47424 EFI Project Number: 98510-05144

June 24, 2013

Prepared For:

David L. Gelhausen, MS, LPG Manager, Underground Storage Fields & Oil Operations Citizens Energy Group Highway 157 N Worthington, Indiana 47471

Prepared By:

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June 24, 2013

David L. Gelhausen, MS, LPG Manager, Underground Storage Fields & Oil Operations Citizens Energy Group Highway 157 N Worthington, Indiana 47471

RE: Phase II Environmental Site Assessment Plummer Field State Road 57 and County Road 275 South Plummer, Indiana 47424 EFI Project Number 98510-05144

Dear Mr. Gelhausen:

EFI Global (EFI) has performed a Phase II Environmental Site Assessment (Phase II) for Citizens Energy Group in accordance with your request and the scope of work outlined in during our May 30, 2013 telephone conversations. The purpose of this investigation was to determine the levels of polynuclear aromatic hydrocarbons (PAHs) and total chloride from two overburden stockpiles. The Phase II investigation involved sampling and testing of stockpiled soil at the site. The attached report provides a summation of the findings of this study.

We trust this submittal is responsive to your needs. If you have any questions or comments regarding this report, or if we can be of further service to you, please do not hesitate to call us at (317) 585-6430.

Sincerely,

EFI Global, Inc.

Scott Verow Staff Technician Patrick Rohan, C.H.M.M. Senior Project Manager

Kurtis H. Gilliam, C.H.M.M. District Manager

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TABLE

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APPENDICES

APPENDIX A – Site Plans and Figures APPENDIX B – Photographic Documentation APPENDIX C – Laboratory Documentation

EXECUTIVE SUMMARY

Citizens Energy Group (Citizens) retained EFI Global, Inc. (EFI) to perform a Phase II Environmental Site Assessment (Phase II) within a portion of the Plummer Field located at approximately County Road 250 West and County Road 325 South (Site) in the Town of Plummer, Greene County, Indiana. This work was performed in accordance with our May 30, 2013 telephone conversations. The Phase II was conducted to evaluate the level of petroleum hydrocarbons in the stockpiled surficial soil generated from a crude oil-water separator release that occurred on May 28, 2013 within a portion of the Plummer Field. Specifically, the purpose of this investigation was to evaluate the levels of polynuclear aromatic hydrocarbons (PAHs) and total chloride from two overburden stockpiles and soil deposited in two random roll-off boxes prior to disposal. The overburden stockpiles were reportedly created per the Indiana Department of Environmental Management (IDEM) cleanup requirements in response to the crude oil-water separator release.

Prior to the arrival of EFI, Citizens had already removed or "scrapped-off" the top 3-6 inches of top soil where the crude oil and water had previously encompassed. Two (2) overburden soil stockpiles were generated as a result of the previous soil removal activities by Citizens. Upon EFI's arrival Citizens was in the process of transferring the stockpiled soil to roll-offs and transporting them off-site for disposal.

Overburden pile No. 1 was approximately 6 feet wide x 90 feet long x 2.5 feet in height. Overburden pile No. 2 was approximately 10 feet wide x 112 feet long x 2.5 feet in height. EFI, on behalf of Citizens, collected random soil samples based on the size of each overburden stockpile to determine the level of petroleum hydrocarbon impact within each overburden stockpile prior to being removed by roll-off boxes from the Site. Specifically, based on the hydrocarbon oils range product listed in the IDEM Potential Petroleum Contaminants Table (*Transition to the Remediation Closure Guide Letter* dated September 17, 2012), the soil samples were submitted for polynuclear aromatic hydrocarbons (PAHs). Additionally, soil samples were also submitted for total chloride to determine the relative salinity of the overburden soil.

On May 31, 2013, EFI collected soil samples from the two overburden soil stockpiles and two roll-off boxes. A total of nineteen (19) soil samples (Sample Nos. 1-18 [no Sample No. 6] and RO-1 and RO-2) were collected from the overburden stockpiles and metal roll-off boxes and submitted for laboratory analysis. One duplicate and matrix spike/matrix spike duplicate soil sample was also collected and submitted for laboratory analysis. Each soil sample was also submitted for PAHs, total chlorides, and percent moisture.

On June 12, 2013, EFI returned to the Site in order to obtain background soil samples. Per discussion with Citizens, IDEM had requested that background soil samples be collected and submitted for the appropriate soil analytical parameters. The exact locations of the background soil samples were randomly chosen by Citizens and EFI. EFI collected the background soil samples from the randomly chosen locations.

A total of 7 background soil samples (Sample Nos. 19 - 25) and one duplicate soil sample were collected and submitted for laboratory analysis. Each soil sample was also submitted for PAHs, total chlorides, and percent moisture.

Concentrations of several, adsorbed PAH constituents were detected in each soil sample; however, the PAH concentrations were all below their respective RCG residential direct contact soil screening levels and soil migration to groundwater (MTG) screening levels with the exception of naphthalene that was detected above the soil migration to groundwater MTG screening level of 0.092 mg/kg. Specifically, adsorbed naphthalene was detected above the soil migration to groundwater MTG screening levels in Soil Sample Nos. 7, 20, 21, 22, and 23. The adsorbed naphthalene concentrations ranged from 0.112 mg/kg in Soil Sample No. 20 – 0.139 mg/kg in Soil Sample No. 21.

Adsorbed chloride concentrations were detected in sixteen (16) soil samples; the concentrations ranged from 119 mg/kg (Soil Sample #20) – 419 mg/kg (Soil Sample #7). Adsorbed chloride concentrations were below laboratory reporting limits in Soil Sample Nos. 4, 5, 11, 13, 19, 22, 23, 24, 25 and RO-2.

Currently, there are no adsorbed chloride direct contact soil screening levels listed in the IDEM Remediation Closure Guide, Appendix A: Screening Levels, Table A-6 dated July 9, 2012; however, elemental chloride is stable, highly soluble, and non-toxic and is readily adsorbed by plants. It should be noted that at the time of the soil sampling activities, a heavy and persistent rainfall event had been occurring which may have leached out additional chloride from the soil. Additionally, the initial water table is estimated to be below 80-inches or more.

Based on these laboratory results, it appears that the concentrations of adsorbed PAH constituents and chloride are relatively low and no further remediation of soil appears warranted at this time.

No pooled surface water samples were collected as part of the initial Phase II activities due to persistent and heavy rainfall. The heavy precipitation diluted the pooled surface water; therefore, it was determined that the water samples would no longer provide valid data.

PHASE II ENVIRONMENTAL SITE ASSESSMENT

Citizens Energy Group Highway 157 N Worthington, Indiana 47471 EFI Project Number: 98510-05144

1.0 INTRODUCTION

Citizens Energy Group (Citizens) retained EFI Global, Inc. (EFI) to perform a Phase II Environmental Site Assessment (Phase II) within a portion of the Plummer Field located at approximately County Road 250 West and County Road 325 South (Site) in the Town of Plummer, Greene County, Indiana. This work was performed in accordance with our May 30, 2013 telephone conversations. The purposed of the Phase II was to determine the level of petroleum hydrocarbons in the stockpiled surficial soil generated from a release associated with a crude oil-water separator that occurred on May 28, 2013 within a portion of the Plummer Field. **Appendix A** provides an aerial site plan outlining the cleanup area.



2.0 BACKGROUND

Plummer Field is located in Greene County and approximately 70 miles west/southwest of Indianapolis. Citizens has installed and operates oil wells in this area. The crude oil water mixture pumped from the wells is stored at the project site in above ground storage tanks. The mixture is run through a oil-water separator to remove water from the crude oil. The system reportedly over filled on May 28, 2013, breached the secondary containment system and flowed onto the adjacent grass covered field.



3.0 SITE DESCRIPTION

3.1 Physical Description

The Subject Property is an industrial property located at County Road 250 West and County Road 325 South in the Town of Plummer, Greene County, Indiana. The Subject Property is found within the Scotland, Indiana 7.5-Minute Topographic Quadrangle Map. A vicinity (topographic) map, aerial photograph, and soil sampling map are provided in **Appendix A**.

The Site location, based on the sign at the property entrance, is ROLLISON 3, 7; SEC.8-T6N-R5W. The Site is located on the west side of County Road 250 West and is primarily a grass covered field. The grass bordering the excavated area had been recently mowed. The excavated area is irregularly shaped with an initially wide area narrowing to the southwest "boot shape" and is approximately 250 ft. long by 100 ft. wide.

Approximately, the top four (4) to six (6) inches of grass/top soil had been removed and placed into to two (2) separate overburden piles. The two (2) overburden stockpiles piles were approximately 50 ft. southwest of the southwest corner of the tank farm secondary containment system (four metal vertical tanks within a walled-dike area). The western pile was approximately 90 ft. long and the eastern pile was approximately 112 ft. long. Both overburden piles were approximately 2.5 ft. tall. It should also be noted that nine (9) previously filled metal roll-off boxes were located at the Site. The metal roll-off boxes had been filled with additional excavated grass/top soil. Other roll-off boxes had been filled and sent off-site for disposal prior to EFI's arrival at the site.

Heavy rainfall was experienced during the site investigation/sample collection activities. The rainwater sheet flow was following the excavation area towards the southwest. A drainage ditch exists just beyond the southern border of the excavated area.



Photographic documentation is provided in **Appendix B**.

3.2 Site Geology

The Site topography consists of relatively flat and gently rolling hills. The Scotland, IN

Topographic Map (USGS, 1979) indicates the ground surface has an elevation that ranges from

approximately 540 to 550 feet above mean sea level. Regionally the ground surface slopes

south towards the White River.

According to the Web Soil Survey (Natural Resources Conservation Service, U.S. Department of

Agriculture), two soil complexes are located at the Site. Alvin Bloomfield complex/ silt loams

(AnB) with a 2 to 6 percent slope occupy approximately 20% of the mapping unit and consist of

gently sloping, well drained deep soils on ridge tops, knolls, and side slopes and in dune like

areas on uplands and terraces. Roby Sandy Loam (RmA) with 0 to 2 percent slope occupy

approximately 80% of the mapping unit and consist of nearly level, deep, somewhat poorly

drained on low terraces (NRCS).

The underlying material is estimated to extend to an approximate depth of 50-100 feet of silty,

sandy, clay loam with unweathered bedrock located beneath. The depth to water table is

estimated to be more than 80 inches (NRCS).

The Wabash Lowland physiographic unit forms the unconsolidated material below the Site.

The unconsolidated deposits have a thickness that ranges from approximately 50 -100 feet or

less (Gray, 1989). The Wabash Lowland is the southernmost physiographic unit in the basin.

This unit is a broad lowland underlain by nonresistant siltstones and shales, which have been

eroded by repeated glaciations into a subdued landscape (Fenelon, 1994). The unconsolidated

material has a complex and unstratified composition.

Pennsylvanian aged complexly interbedded shale and sandstone, with then beds of limestone

and coal composed of the Racoon Creek and Carbondale Groups and the Shelburn, Patoka, and

Page 4 of 18 EFI Project Number 98510-05144



Bond Formations of the McLeansboro Group forms the bedrock below the Site (Fenelon, 1994). The surface of the bedrock has an elevation of approximately 440-500 feet above MSL. Regionally the bedrock surface slopes to the south in the study area.

Major hydrogeologic features such as a river or lake generally influence the regional groundwater flow direction. Surface and/or bedrock topography may also influence regional groundwater flow direction. Vicinity groundwater flow is assumed to flow in a southerly direction towards the White River.

Local geologic features may cause local groundwater flow direction to differ from regional flow direction. Local hydraulic gradient at the Site is interpreted based on a review of the USGS Topographic Quadrangle. Estimated groundwater levels and/or flow direction(s) may vary due to seasonal fluctuations in precipitation, local usage demands, geology, underground structures or dewatering operations. A complete hydrogeologic investigation would be necessary to determine actual groundwater flow direction.



4.0 FIELD WORK

The primary object of this project was to collect soil samples for laboratory analysis and generate data concerning the presence of petroleum hydrocarbon impact within the over-excavated soil overburden piles. This study focused on the two overburden stockpiles of surficial soil and two filled roll-off boxes that had been previously generated by Citizens prior to the arrival of EFI.

4.1 Random Sampling Procedures

In order to collect sufficient soil samples to identify areas of contamination or no contamination and estimate/test an area for petroleum hydrocarbons, EFI selected a systematic and grid sampling approach. This approach was chosen from the U.S. EPA Quality System in selecting a sampling design to meet these parameters. Systematic and grid sampling involves using a random number generator (or equivalent process) to select an initial sampling point (either spatial or temporal) and the remaining points are based on a specific pattern (e.g. rectangular). This sampling design can be used for any objective in estimating means/testing, finding elevated concentrations, and estimating spatial or temporal patterns or correlations. It is primarily used for pilot studies, scoping studies, and exploratory studies. It is best used when the item of interest could not possibly be aligned with the sampling pattern; little to no prior information is available; regular spacing makes it easy for field teams to locate sampling points; or when uniform coverage of an area/process is necessary (EPA Quality System, 2008).

Additionally, this pre-determined sampling approach would also be utilized in an attempt to limit bias or subjective sampling from within the overburden stockpiles of soil.

Initially, the dimensions of each overburden stock pile of soil was estimated to be approximately 10 feet in width, 200 feet in length, and 2-3 feet in height. Based on this



sizing information, twenty (20) equidistant rectangular sampling grids were generated within each stockpile area. Each sampling grid was five (5) feet in width and twenty (20) feet in length; hence, creating twenty (20) separate sampling grid locations within each soil stockpile or forty (40) overall sampling grids for both soil stockpiles. Based on the forty (40) separate sampling grid areas, a random number generator was used to create a specific sampling location within the specific grid. The random number generator was programmed to create forty (40) sets of one (1) unique number per set that ranged from 1 to 20 (unsorted). It should be noted that each set correlated to the specific sampling grid (e.g. 1-40).

Based on each equidistant sampling grid measurement (5 ft. x 20 ft.), the number generated within each set (e.g. Set #1: 15) signified that in the case of Set #1, a soil sample would be collected 15 feet from the initial starting point measurement (corner of the sampling grid). This procedure would be followed for each subsequent sampling grid location (e.g. Set #2: 12, Set #3: 9, Set #4: 3, etc.). It should be noted that the first overburden stockpile had two (2) sample grid rows: one (1) through ten (10) and eleven (11) through twenty (20). The second overburden stockpile also had two (2) sample grid rows: twenty-one (21) through thirty (30) and thirty-one (31) through forty (40).

4.2 Random Soil Sampling From the Overburden Stockpiles

An EFI representative initiated fieldwork for this project on May 31, 2013. The field task was to collect soil samples from the two overburden stockpiles from locations determined by the random sampling procedure discussed in the section above.

Upon arrival at the Site, the first task EFI conducted was to determine the actual size of the two overburden stockpiles. The overburden stockpiles were located approximately 50 ft. southwest of the southwest corner of the tank farm secondary containment. For this report, Stockpile 1 is the western pile and Stockpile 2 is the eastern pile. A layout of the overburden stockpiles is presented in the site plan located in **Appendix A**. A handheld measuring wheel was used to measure the length of the stockpiles and to mark the sample grid boundaries and



soil sample locations. Stockpile 1 was approximately 90 ft. long x 6 ft. wide. Stockpile 2 was approximately 112 long x 10 ft. wide. Both stockpiles ranged from 1.5 ft. to 3 ft. in height. Orange flags were placed on the west edge of the both overburden stockpiles to mark off the 20 ft. sampling section grids as had been previously created as part of the systematic sampling grid pattern.

Once the lengths of the stockpiles were measured and the grid pattern marked, then the actual number of samples and sample locations were determined. In the case of Stockpile 1, the first 20 ft. length section was 8 ft. wide and then tapered to 6 ft. in width throughout the remaining length of the overburden stockpile. It was decided that the first 20 ft. section would follow the original sampling grid pattern and one soil sample would be collected from both sides of the pile. The remainder of the Stockpile had 1 sample taken from each 20 ft. grid section. The last section of the stockpile was 10 ft. long (i.e. half of the grid pattern length), so the last sample was taken at half the original distance determined in the sampling grid procedure. Sample locations were marked with orange flags approximately 1 ft. inside the west edge of the pile for soil samples 1 through 5. The flag for soil sample 7 was placed 1 ft. in side the east edge of the pile. No soil sample 6 was collected during the sampling activities due to an inadvertent labeling oversight on the sample jars. A total of six (6) soil samples were collected from Stockpile 1.

After Stockpile 1 was properly marked with orange flags, the locations for the samples in Stockpile 2 were then identified. In the case of Stockpile 2, the width was approximately 10 ft. throughout most of the length of the overburden stockpile. Therefore, the soil samples were collected at the pre-determined locations by the systematic sampling grid pattern. Because the last section of the stockpile was 12 ft. long and 6 ft. wide, only one soil sample was collected. Its location was determined using the same methodology as the last (end) soil sample collected in Stockpile 1. Sample locations were also marked with orange flags approximately 1 ft. inside both edges of the pile for soil samples 8 through 12 and 14 through



18, with the exception of the end sample (sample 13), which was placed inside the west edge. A total of eleven (11) soil samples were collected from Stockpile 2.

Additionally, two soil samples were collected from within the previously filled metal roll-off boxes. Two of the nine metal roll-off boxes were chosen to collect the soil samples. Specifically, one roll-off box was located in the middle of the excavated area and the second roll-off box was located within a row of roll-off boxes. The roll-off box soil samples were labeled RO-1 and RO-2, respectively. Each soil sample was randomly chosen from within the middle of each metal roll-off box. It is our understanding that the excavated overburden (i.e. grass/top soil) loaded into metal roll-off boxes were taken for disposal at a landfill facility.

A total of nineteen (19) soil samples were collected from the overburden stockpiles and metal roll-off boxes. One soil grab sample was collected from each identified sample location. Each soil sample was collected in a 4 oz., unpreserved sample container. Additionally, each soil sample was collected approximately 1 ft. beneath the top of the overburden stockpile. For both stockpiles, each soil sample was also collected approximately 2 ft. inwards from the edge of the pile in its respective location. For the roll-off box soil samples, each soil sample was collected approximately 1 ft. inwards from the edge of roll-off box container and 1 ft. beneath the top surface of the overburden material. Each grab sample was collected by hand using a dedicated sampling glove. One matrix spike/matrix spike duplicate (MS/MSD) soil sample and 1 duplicate soil sample was also collected for QA/QC purposes.

Each soil sample collected for laboratory analysis was placed in the appropriate 4 oz. glass sample container provided by Pace Analytical (Pace) and preserved in a cooler on ice. The collected samples were hand delivered to the Pace laboratory in Indianapolis, IN. Each soil sample was submitted for PAHs and total chlorides.

EFI **Ø** Global

4.3 Subsequent Background Soil Sampling

On June 12, 2013 an EFI representative returned to the Site and initiated fieldwork to collect

background samples. Per discussion with the Citizens, IDEM had requested that background

soil samples be collected and submitted for the appropriate soil analytical parameters. Soil

samples were collected from several areas west of the spill location. The exact locations

were randomly chosen by Citizens and EFI.

A total of seven (7) soil sample locations were chosen from the area west of the spill

location. A containment wall of straw bales was placed approximately 75 ft. west of the

excavation area. Four of the soil sample locations were between the straw wall and the

excavation area; the remaining three soil samples were west of the straw wall. All sample

locations were marked with orange flags. A site plan identifying the location of the

background soil samples is provided in **Appendix A**.

The samples were collected from a depth of approximately 3-4 inches below the surface. At

each specific location, a shovel was used to remove the top layer of soil that was

approximately 2 inches in depth. Subsequently, approximately 1-2 inches of soil beneath the

top layer was further removed by hand using dedicated sampling gloves. The exposed soil

that was approximately 3-4 inches below the surface was collected as the background soil

sample. It should be noted that the shovel was decontaminated by distilled water between

each sample location.

A total of 7 background soil samples (1 per location) were collected and submitted for

laboratory analysis. One additional duplicate soil sample was also collected and submitted

for laboratory analysis. Each soil sample collected for laboratory analysis was placed in the

appropriate 4 oz. glass sample container provided by Pace and preserved in a cooler on ice.

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The collected samples were hand delivered to Pace in Indianapolis, IN. Each soil sample was submitted for PAHs, total chlorides, and percent moisture.

4.4 Decontamination

For the sampling from the overburden stockpiles, each soil sample was collected by hand using disposable nitrile gloves. After each soil sample was collected, a new pair of nitrile gloves was donned by the EFI sample collector. No other decontamination procedures were used.

For the background soil sampling event, each soil sample was collected by hand using disposable nitrile gloves. A shovel was used to excavate the soil to an approximate 3 inch depth before collecting the sample by hand. The shovel was cleaned between samples by first scraping the dirt off by hand. Next, distilled water was used to wash (distilled water and clean paper towels were used to scrub the surface) of the shovel until no visible dirt remained. Then the shovel was rinsed until the water falling off was clear. A new pair of nitrile gloves was donned by the EFI prior to collecting the next background soil sample.

4.5 Media Disposal

The disposable sampling gloves and orange marking flags used in the overburden soil sample collection process were disposed with the overburden samples. The disposable sampling gloves used in the background sampling was collected and disposed of properly. The orange flags were left in the field.



5.0 LABORATORY ANALYSIS

The laboratory analytical results for the soil samples collected at the Site are discussed in the following sections. The sample results were compared to the IDEM Remediation Closure Guide (RCG) Soil Screening Levels (RCG, Appendix A: Screening Levels, Table A-6, July 9, 2012). Each soil sample was submitted to the Pace laboratory in Indianapolis, IN for PAH using EPA Method 8270 SIM and total chloride using Standard Method 4500-Cl-E, and percent moisture analysis using ASTM D2974-87 Method. The laboratory analytical report is included as **Appendix C**.

5.1 Soil Data - PAH

All of the soil samples submitted for analysis from the randomly sampled areas within the two separate overburden stockpiles, roll-off boxes and background soil sampling areas located at the Plummer Field contained relatively low concentrations of PAH compounds.

The concentrations of PAH detected in each soil sample was below their respective residential direct contact soil screening levels. Additionally, each PAH constituent within each soil sample was below the soil migration to groundwater (MTG) screening level with the exception of naphthalene that was detected above the soil migration to groundwater MTG screening level of 0.092 mg/kg. Specifically, adsorbed naphthalene was detected in the soil migration to groundwater MTG screening levels in Soil Sample Nos. 7, 20, 21, 22, and 23. The adsorbed naphthalene concentrations ranged from 0.112 mg/kg in Soil Sample No. 20 – 0.139 mg/kg in Soil Sample No. 21.

A summary of the soil analytical data is provided in **Table 1** in the Tables Section of this report.



5.2 Soil Data – Total Chloride

Chloride (Cl⁻) is an essential element for animals and all plants. It is a component of common salt and found in seawater. This must not be confused with other forms of the element such as chlorine gas (highly toxic and unstable), chlorine in swimming pools, hypochlorite (a sterilant and bactericide), hydrochloric acid (corrosive and dangerous liquid), etc. It is important to recognize that none of these forms can occur in soils as the result of the additions of chloride in fertilizers, manures, or rainfall. Chloride is stable, highly soluble, non-toxic and is readily adsorbed by plants (A&L Canada Laboratories, Inc., Revised April 2008).

Adsorbed chloride concentrations were detected in fourteen (16) soil samples; the concentrations ranged from 119 mg/kg (Soil Sample #20) – 419 mg/kg (Soil Sample #7). Adsorbed chloride concentrations were below laboratory reporting limits in Soil Sample Nos. 4, 5, 11, 13, 19, 22, 23, 24, 25 and RO-2.

Currently, there are no adsorbed chloride direct contact soil screening levels listed in the RCG, Appendix A: Screening Levels, Table A-6, July 9, 2012; however, elemental chloride is stable, highly soluble, and non-toxic and is readily adsorbed by plants. Plant species differ considerably in their sensitivity to chloride excess. The sensitivity also varies with the moisture holding capacity of the soil and soil moisture content. The existence of healthy ecosystems in coastal regions of the world, which receive enormous quantities of chloride from rain, has shown that chloride addition is not a problem (A&L Canada Laboratories, Inc., Revised April 2008).

It should be noted that at the time of the soil sampling activities, a heavy and persistent rainfall event had been occurring which may have leached out additional chloride from the soil. Additionally, the initial water table is estimated to be below 80-inches or more.



A summary of the soil analytical data is provided in **Table 1** in the Tables Section of this report.

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6.0 CONCLUSIONS

This Phase II included a reconnaissance visit of the Site, collecting soil samples from two (2) overburden soil stockpiles, two (2) metal roll-off boxes and seven (7) separate background sampling locations for laboratory analysis. The purpose of the Phase II was to evaluate the level of petroleum hydrocarbons in the stockpiled surficial soil that was generated from a recent crude oil spill associated with an oil-water separator release that occurred on May 28, 2013 within a portion of the Plummer Field. Background soil samples were also collected for comparative purposes based on previous discussion between Citizens and the IDEM.

Concentrations of several, adsorbed PAH constituents were detected in each soil sample; however, the PAH concentrations were all below their respective RCG residential direct contact soil screening levels and soil MTG screening levels with the exception of naphthalene that was detected above the soil migration to groundwater MTG screening level of 0.092 mg/kg. Specifically, adsorbed naphthalene was detected above the soil migration to groundwater MTG screening levels in Soil Sample Nos. 7, 20, 21, 22, and 23. The adsorbed naphthalene concentrations ranged from 0.112 mg/kg in Soil Sample No. 20 – 0.139 mg/kg in Soil Sample No. 21.

Adsorbed chloride concentrations were detected in fourteen (16) soil samples; the concentrations ranged from 119 mg/kg (Soil Sample #20) – 419 mg/kg (Soil Sample #7). Adsorbed chloride concentrations were below laboratory reporting limits in Soil Sample Nos. 4, 5, 11, 13, 19, 22, 23, 24, 25 and RO-2.

Currently, there are no adsorbed chloride direct contact soil screening levels listed in the RCG, Appendix A: Screening Levels, Table A-6, July 9, 2012; however, elemental chloride is stable, highly soluble, and non-toxic and is readily adsorbed by plants. It should be noted that at the time of the soil sampling activities, a heavy and persistent rainfall event had been



occurring which may have leached out additional chloride from the soil. Additionally, the initial water table is estimated to be below 80-inches or more.

Based on these laboratory results, it appears that the concentrations of adsorbed PAH constituents and chloride are relatively low and no further remediation of soil appears warranted at this time.

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7.0 QUALIFICATIONS

This report has been prepared to aid Citizens in determining the petroleum hydrocarbon levels in the two (2) overburden soil stockpiles, two (2) metal roll-off boxes, and seven (7) separate background locations at the Site. This report is prepared for the sole benefit of Citizens and may not be relied upon by any other person or entity without the written authorization of EFI.

The preliminary subsurface evaluation was intended to evaluate the general shallow subsurface conditions, and is based on limited and selected sampling locations. Significant variations in the subsurface conditions may be present in areas not sampled. Additional investigations would be necessary to evaluate the extent and magnitude of any soil and groundwater contamination present.

This report and all field data and notes were gathered and/or prepared by EFI in accordance with the agreed upon scope of work and generally accepted engineering and scientific practices in effect at the time of EFI's assessment. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the environmental conditions at the Subject Property. Moreover, there are several points to note, as follows:

- 1. Environmental regulations continually change, as do the enforcement priorities of the applicable government agencies involved.
- 2. It is often difficult and sometimes impossible to accurately estimate the cost that may be involved in remedying the issues. The legal and technological standard initially applied at the agency level for evaluating and remedying environmental issues can be dependent upon the agency official involved.
- 3. There is always a possibility that sources of future environmental liability have yet to manifest themselves to the point where they are reasonably identifiable through a reasonable external investigation such as the one conducted herein.

The conclusions and recommendations presented in this report describe only the conditions present at the time of the study, in the areas that were assessed. The scope of this report is limited to matters expressly covered.



8.0 REFERENCES

Interviews:

David L. Gelhausen, MS, LPG Manager, Underground Storage Fields & Oil Operations

Research:

7.5-Minutes Series Topographic Map, Scotland Quadrangle, U.S. Department of the Interior Geological Survey, 1979.

A&L Canada Laboratories, Inc., Chlorine vs. Chloride Fact Sheet, Fact Sheet No. 800, Revised April 2008.

Aerial photograph: Google[™] earth, September 1, 2011

Fenelon, Joseph, M., Hydrogeologic Atlas of Aquifers in Indiana, U.S. Geological Survey, Water-Resources Investigation Report 92-4142, Indianapolis, Indiana, 1994

Gray, Henry, H., Quaternary Geologic Map of Indiana, 1989

Gray, Henry, H., Map of Indiana Showing Thickness of Unconsolidated Deposits, 1983

Gray, Henry, H., Ault, Curtis, H., and Keller, Stanley J., Bedrock Geologic Map of Indiana, 1987

Greene County Soil Survey, United States Department of Agriculture, Natural Resources Conservation Service, Custom Soil Resource Report, June 2013.

Indiana Department of Environmental Management, Office of Land Quality, Remediation Closure Guide, March 22, 2012.

Indiana Department of Environmental Management, Office of Land Quality, Remediation Closure Guide with corrections, Appendix A: Screening Levels (Table A-6: Screening Level Summary Table -2012), July 9, 2012.

TABLES

Table 1

Summary of Soil Analytical Results

Plummer Field

Citizens Energy Group

County Road 250 West and County Road 325 South

Plummer, IN

EFI Project # 98510-05144

									El	I Project #	98510-05144	4								
							P	olynuclear .	Aromatic H	ydrocarbon	ıs (PAHs) b	y EPA Meth	od 8270 by SI	M (ppm)						Chloride by SM 4500-CI-E
Sample Number	Sample Date	Acenaphthene	Acenaphthaylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1- Methylnaphthalene	2- Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	Chloride
Soil Exposur Contact - Re		4,800	N/A	24,000	2.1	0.21	2.1	N/A	21	210	0.21	3,200	3,200	2.1	310	370	50	N/A	2,400	N/A
Soil Exposur Contact - C		33,000	N/A	100,000	21	2.1	21	N/A	210	2,100	2.1	22,000	22,000	21	390	370	180	N/A	17,000	N/A
Soil Exposure - L - Excave		55,000	N/A	100,000	1,300	130	1,300	N/A	13,000	100,000	130	37,000	37,000	1,300	390	370	1,000	N/A	28,000	N/A
Ground Water Resider	ntial	82	N/A	860	2.1	4.7	7	N/A	68	210	2.2	1,400	81	23	1	2.8	0.092	N/A	190	N/A
Oil Spill Area	Soil Samplin	ıg																		
1	05/31/13	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	< 0.333	0.0668	< 0.333	0.0343	0.274	< 0.333	0.0649	0.049	< 0.333	0.517	0.0592	218
2	05/31/13	0.0176	< 0.0065	< 0.0065	< 0.0065	0.0075	0.0102	< 0.0065	< 0.0065	0.0387	< 0.0065	0.0235	0.184	< 0.0065	0.063	0.0495	0.0125	0.307	0.0366	335
3	05/31/13	0.0091	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	< 0.0062	0.0158	< 0.0062	0.0087	0.0784	< 0.0062	0.0451	0.0386	0.0082	0.148	0.0155	144
4	05/31/13	0.0173	< 0.0069	0.0108	< 0.0069	< 0.0069	0.0076	< 0.0069	< 0.0069	0.0188	< 0.0069	0.0147	0.123	< 0.0069	0.110	0.0808	0.0368	0.180	0.0193	<138
5	05/31/13	0.0082	< 0.0062	< 0.0062	0.0096	0.0073	0.0074	< 0.0062	0.0067	0.0174	< 0.0062	0.0317	0.0779	<.0062	0.052	0.0392	0.0072	0.125	0.0307	<125
7	05/31/13	0.0805	< 0.0338	< 0.0338	< 0.0338	< 0.0338	< 0.0338	< 0.0338	< 0.0338	0.142	< 0.0338	0.0654	0.765	< 0.0338	0.262	0.130	< 0.0338	1.320	0.120	419
8	05/31/13	0.0168	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	0.0281	< 0.0064	0.0117	0.150	< 0.0064	0.0821	0.0694	0.0126	0.277	0.0245	185
9	05/31/13	0.117	< 0.0329	< 0.0329	< 0.0329	< 0.0329	< 0.0329	< 0.0329	< 0.0329	0.145	< 0.0329	0.0832	0.953	< 0.0329	0.785	0.629	0.120	1.570	0.135	187
10	05/31/13	0.233	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	0.0313	< 0.0064	0.0171	0.199	< 0.0064	0.144	0.143	0.031	0.346	0.030	169
11	05/31/13	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	< 0.0061	0.010	0.0144	< 0.0061	0.0138	0.0105	<0.0061	0.030	0.0089	<122
12	05/31/13	0.0074	< 0.0064	<0.0064	<0.0064 <0.0059	<0.0064 <0.0059	< 0.0064	<0.0064 <0.0059	<0.0064 <0.0059	0.0145	<0.0064 <0.0059	0.0145	0.0716	<0.0064 <0.0059	0.0505	0.0558	0.0097 <0.0059	0.132	0.0174	165
13	05/31/13 05/31/13	0.0065	<0.0059 <0.0064	<0.007	<0.0059	<0.0059	<0.0059 <0.0064	<0.0059	<0.0059	0.0178 0.0216	<0.0059	0.0129 0.0101	0.0652 0.131	<0.0059	0.0337 0.0765	0.0361		0.146	0.018	<119 405
Duplicate	05/31/13	<0.0326	< 0.0064	< 0.0064	<0.0064	<0.0064	<0.0064	<0.0064	<0.0064	0.0216	<0.0064	< 0.0101	0.131	<0.0064	0.0765	0.0762 0.147	0.0156 0.0335	0.237	0.020	328
15	05/31/13	<0.0326	0.0326	0.0326	0.0326	0.0092	0.0326	0.0071	0.0098	0.0434	<0.0326	0.0326	0.284	<0.0326	0.177	0.0212	<0.0063	0.484	0.0393	159
16	05/31/13	0.0144	< 0.0064	< 0.0064	<0.0107	< 0.0092	< 0.0064	<0.0071	< 0.0098	0.0232	<0.0064	0.0189	0.0347	<0.0064	0.0190	0.0693	0.0003	0.127	0.0213	254
17	05/31/13	< 0.0066	<0.0066	<0.0066	< 0.0064	< 0.0064	< 0.0066	< 0.0066	<0.0066	0.00224	< 0.0066	< 0.011	0.0509	< 0.0066	0.0256	0.024	0.0079	0.2330	0.0201	293
18	05/31/13	0.010	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	0.0055	<0.0066	0.0077	0.0852	<0.0066	0.0230	0.0646	0.0073	0.0515	0.0101	232
RO1	05/31/13	0.0102	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	< 0.0064	0.0137	< 0.0064	0.0077	0.0855	< 0.0064	0.0616	0.0486	0.0101	0.140	0.0144	253
RO2	05/31/13	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	< 0.0065	0.011	< 0.0065	< 0.0065	0.0601	< 0.0065	0.037	0.0391	0.0065	0.114	0.0106	<129
Background A																				
19	06/12/13	0.104	< 0.0287	< 0.0287	< 0.0287	< 0.0287	< 0.0287	< 0.0287	< 0.0287	0.148	< 0.0287	0.0654	0.880	< 0.0287	0.491	0.147	0.0712	1.130	0.121	<115
20	06/12/13	0.131	< 0.0294	< 0.0294	< 0.0294	< 0.0294	< 0.0294	< 0.0294	< 0.0294	0.176	< 0.0294	0.077	1.180	< 0.0294	0.786	0.290	0.112	1.770	0.143	119
21	06/12/13	0.0802	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	0.149	< 0.029	0.0658	0.756	< 0.029	0.279	< 0.029	0.139	0.960	0.119	184
22	06/12/13	0.122	< 0.0292	< 0.0292	< 0.0292	< 0.0292	< 0.0292	< 0.0292	< 0.0292	0.162	< 0.0292	0.0723	1.130	< 0.0292	0.807	0.554	0.137	1.690	0.129	<117
Duplicate	06/12/13	0.0389	< 0.0286	< 0.0286	< 0.0286	< 0.0286	< 0.0286	< 0.0286	< 0.0286	0.0603	< 0.0286	0.0336	0.346	< 0.0286	0.189	0.0539	0.0457	0.543	0.0511	<115
23	06/12/13	0.0712	< 0.0286	< 0.0286	< 0.0286	< 0.0286	< 0.0286	< 0.0286	< 0.0286	0.101	< 0.0286	0.0503	0.673	< 0.0286	0.505	0.642	0.134	1.040	0.0861	<115
24	06/12/13	0.0468	< 0.0292	< 0.0292	< 0.0292	< 0.0292	< 0.0292	< 0.0292	< 0.0292	0.0763	< 0.0292	0.0448	0.420	< 0.0292	0.241	0.0828	0.0576	0.652	0.0655	<118
25	06/12/13	0.0533	< 0.0283	< 0.0283	< 0.0283	< 0.0283	< 0.0283	< 0.0283	< 0.0283	0.0761	< 0.0283	0.0361	0.486	< 0.0283	0.323	0.0865	0.0561	0.758	0.062	<114

- Notes:

 Samples collected on 05/31/13 are from the area of the oil spill.

 Samples collected on 06/12/13 are background samples.

 Concentrations in Bold Blue meet or exceed the July 9, 2012 IDEM Remediation Program "Soil Exposure Direct Contact Residential" levels.

 Concentrations in Bold Italies meet or exceed the July 9, 2012 IDEM Remediation Program "Soil Exposure Direct Contact Com/Ind Soil" levels.

 Concentrations in Italies meet or exceed the July 9, 2012 IDEM Remediation Program "Soil Exposure Direct Contact Excavation" levels.

 Concentrations in Bold meet or exceed the July 9, 2012 Remediation Program "Ground Water Soil MTG Residential" levels.

APPENDIX A SITE PLANS AND FIGURES

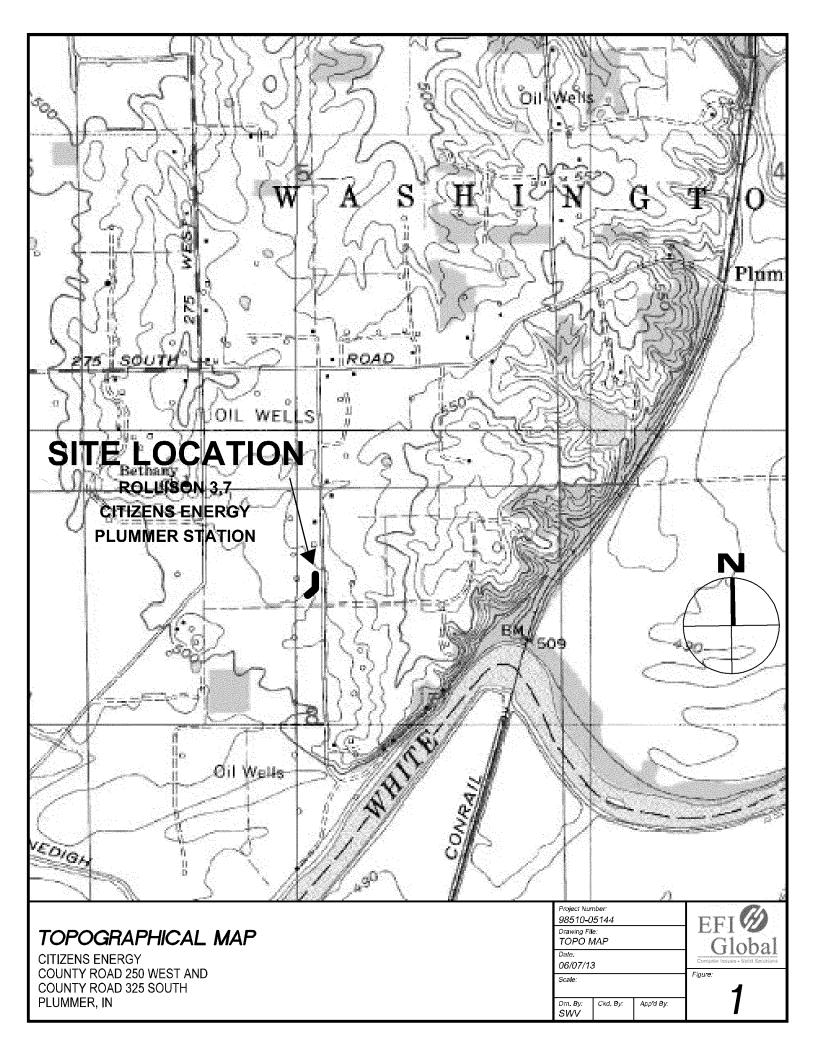
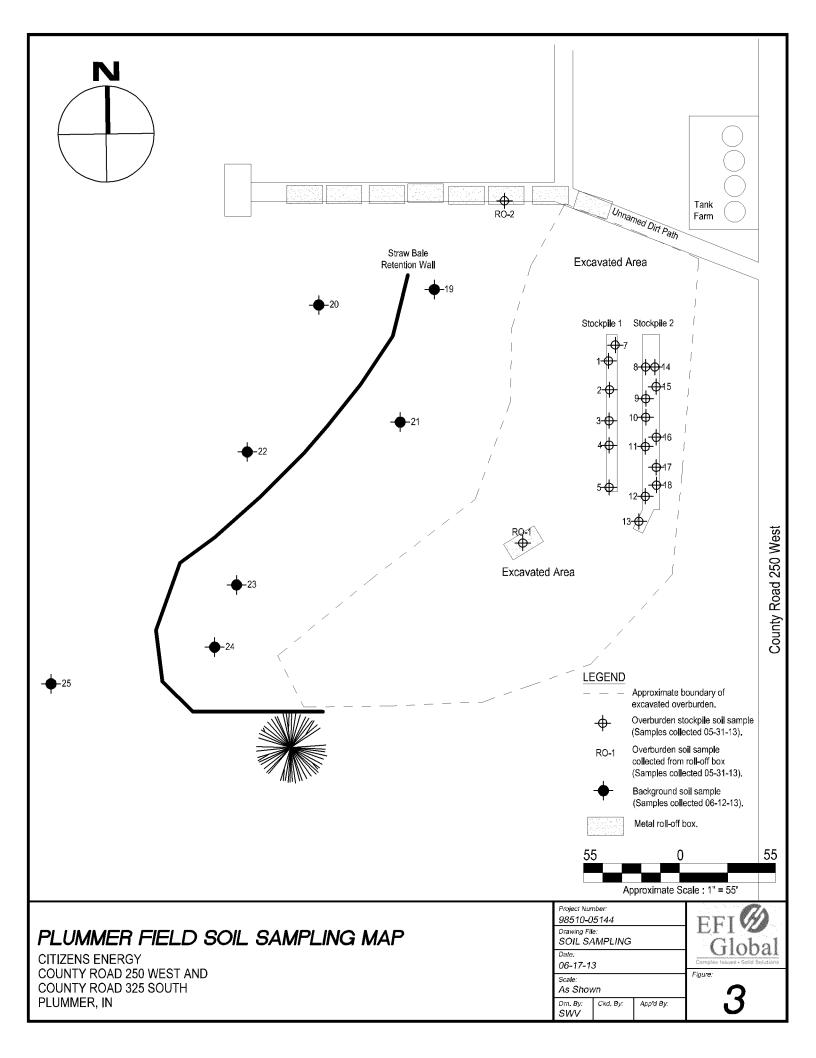






Figure 2
Site Plan

Citizens Energy Plummer Field County Road 250 West and County Road 325 South Plummer, IN **EFI Project Number**: 98510-05144



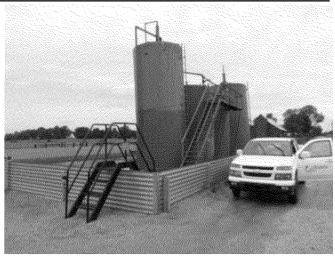
APPENDIX B PHOTOGRAPHIC DOCUMENATION

Photographs





1. Citizens Energy Plummer Field Station.



2. Tank farm from which leak occurred.



3. Southwest corner of tank farm where leak occurred.



4. Excavation area facing south toward overburden piles.



5. Excavation area facing south toward roll-off box and location of sample RO-1.



6. Excavation area facing north.

Photographs





7. East side overburden stock pile.



8. West side overburden stock pile.



9. Orange flags within the stock piles represent the sample locations.



10. Roll-off boxes on the north edge containing excavated material.



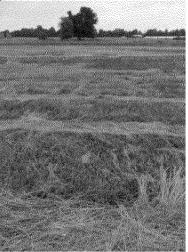
11. Background sample area located west of the previously excavated area.



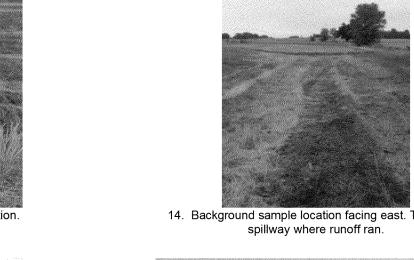
12. Orange flags represent the background soil sample locations.

Photographs





13. Flag marking sample location.



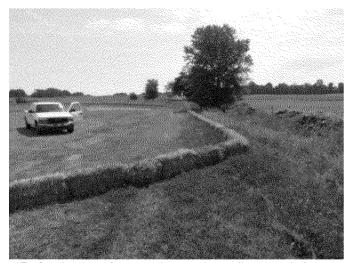
14. Background sample location facing east. This is the



15. Spillway facing west.



16. West edge of straw bale retention wall.



17. South edge of straw bale retention wall next to drainage ditch.



18. Tree is the eastern edge of the excavation.

APPENDIX C LABORATORY DOCUMENTATION



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

June 12, 2013

Mr. Scott Verow EFI Global, Inc. 8091 Center Run Drive Suite 191 Indianapolis, IN 46250

RE: Project: Citizens Energy Group

Pace Project No.: 5081252

Dear Mr. Verow:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna Spyker

Donna S. Softer

donna.spyker@pacelabs.com Project Manager

Enclosures





Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

CERTIFICATIONS

Project: Citizens Energy Group

Pace Project No.: 5081252

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268 Illinois Certification #: 200074 Indiana Certification #: C-49-06

Kansas Certification #: E-10247 Kentucky Certification #: 0042 Louisiana/NELAC Certification #: 04076 Ohio VAP Certification #: 101170-0 Pennsylvania Certification #: 68-04991 West Virginia Certification #: 330

REPORT OF LABORATORY ANALYSIS





SAMPLE SUMMARY

Project: Citizens Energy Group

Pace Project No.: 5081252

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5081252001	1	Solid	05/31/13 07:30	05/31/13 12:08
5081252002	2	Solid	05/31/13 07:40	05/31/13 12:08
5081252003	3	Solid	05/31/13 07:50	05/31/13 12:08
5081252004	4	Solid	05/31/13 08:00	05/31/13 12:08
5081252005	5	Solid	05/31/13 08:10	05/31/13 12:08
5081252006	7	Solid	05/31/13 08:30	05/31/13 12:08
5081252007	8	Solid	05/31/13 08:40	05/31/13 12:08
5081252008	9	Solid	05/31/13 08:50	05/31/13 12:08
5081252009	10	Solid	05/31/13 09:00	05/31/13 12:08
5081252010	11	Solid	05/31/13 09:10	05/31/13 12:08
5081252011	12	Solid	05/31/13 09:20	05/31/13 12:08
5081252012	13	Solid	05/31/13 09:30	05/31/13 12:08
5081252013	14	Solid	05/31/13 09:40	05/31/13 12:08
5081252014	15	Solid	05/31/13 09:45	05/31/13 12:08
5081252015	16	Solid	05/31/13 09:15	05/31/13 12:08
5081252016	17	Solid	05/31/13 09:25	05/31/13 12:08
5081252017	18	Solid	05/31/13 09:05	05/31/13 12:08
5081252018	R01	Solid	05/31/13 09:35	05/31/13 12:08
5081252019	R02	Solid	05/31/13 09:38	05/31/13 12:08
5081252020	DUP	Solid	05/31/13 08:00	05/31/13 12:08

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: Citizens Energy Group

Pace Project No.: 5081252

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5081252001	1	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252002	2	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252003	3	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252004	4	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252005	5	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
081252006	7	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
081252007	8	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252008	9	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252009	10	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252010	11	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
081252011	12	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252012	13	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252013	14	EPA 8270 by SIM	CEM	20

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: Citizens Energy Group

Pace Project No.: 5081252

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252014	15	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252015	16	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252016	17	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252017	18	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252018	R01	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252019	R02	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081252020	DUP	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 1 Lab ID: 5081252001 Collected: 05/31/13 07:30 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Metho	od: EPA 827	0 by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	ND ug/	/kg	33.3	5	06/05/13 13:35	06/06/13 15:35	83-32-9	
Acenaphthylene	ND ug/	/kg	33.3	5	06/05/13 13:35	06/06/13 15:35	208-96-8	
Anthracene	ND ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	120-12-7	
Benzo(a)anthracene	ND ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	56-55-3	
Benzo(a)pyrene	ND ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	50-32-8	
Benzo(b)fluoranthene	ND ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	205-99-2	
Benzo(g,h,i)perylene	ND ug/	/kg	33.3	5	06/05/13 13:35	06/06/13 15:35	191-24-2	
Benzo(k)fluoranthene	ND ug/	/kg	33.3	5	06/05/13 13:35	06/06/13 15:35	207-08-9	
Chrysene	66.8 ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	218-01-9	
Dibenz(a,h)anthracene	ND ug/	/kg	33.3	5	06/05/13 13:35	06/06/13 15:35	53-70-3	
luoranthene	34.3 ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	206-44-0	
luorene	274 ug/	⁄kg	33.3	5	06/05/13 13:35	06/06/13 15:35	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/	/kg	33.3	5	06/05/13 13:35	06/06/13 15:35	193-39-5	
-Methylnaphthalene	64.9 ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	90-12-0	N2
-Methylnaphthalene	49.0 ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	91-57-6	
laphthalene	ND ug/	/kg	33.3	5	06/05/13 13:35	06/06/13 15:35	91-20-3	1d
Phenanthrene	517 ug/l	⁄kg	33.3	5	06/05/13 13:35	06/06/13 15:35	85-01-8	
Pyrene	59.2 ug/	′kg	33.3	5	06/05/13 13:35	06/06/13 15:35	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	72 %.		38-110	5	06/05/13 13:35	06/06/13 15:35	321-60-8	
o-Terphenyl-d14 (S)	67 %.		32-111	5	06/05/13 13:35	06/06/13 15:35	1718-51-0	
ercent Moisture	Analytical Metho	od: ASTM D	2974-87					
Percent Moisture	25.2 %		0.10	1		06/06/13 15:52		
500 Chloride in Soil	Analytical Metho	od: SM 4500	-CI-E Preparation I	Method	: SM 4500-CI-E			
Chloride	218 mg.	ı/kg	133	1	06/06/13 09:12	06/10/13 11:37	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 2 Lab ID: 5081252002 Collected: 05/31/13 07:40 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units Repo	rt Limit	DF	Prepared	Analyzed	CAS No.	Qua
270 MSSV PAH by SIM	Analytical Method	: EPA 8270 by SIM	Preparati	on Met	hod: EPA 3546			
Acenaphthene	17.6 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	83-32-9	
Acenaphthylene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	208-96-8	
Anthracene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	56-55-3	
Benzo(a)pyrene	7.5 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	50-32-8	
Benzo(b)fluoranthene	10.2 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	207-08-9	
Chrysene	38.7 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	53-70-3	
luoranthene	23.5 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	206-44-0	
Fluorene	184 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	193-39-5	
-Methylnaphthalene	63.0 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	90-12-0	N2
2-Methylnaphthalene	49.5 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	91-57-6	
Naphthalene	12.5 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	91-20-3	
Phenanthrene	307 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	85-01-8	
Pyrene	36.6 ug/kg		6.5	1	06/05/13 13:35	06/06/13 15:53	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	61 %.		38-110	1	06/05/13 13:35	06/06/13 15:53		
o-Terphenyl-d14 (S)	58 %.		32-111	1	06/05/13 13:35	06/06/13 15:53	1718-51-0	
ercent Moisture	Analytical Method	: ASTM D2974-87						
Percent Moisture	23.7 %		0.10	1		06/06/13 15:52		
500 Chloride in Soil	Analytical Method	: SM 4500-CI-E Pre	paration I	Method	: SM 4500-CI-E			
Chloride	335 mg/kg	I	131	1	06/06/13 09:12	06/10/13 11:38	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 3 Lab ID: 5081252003 Collected: 05/31/13 07:50 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units Report L	imit _	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method:	EPA 8270 by SIM Pre	eparatio	n Met	hod: EPA 3546			
Acenaphthene	9.1 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	83-32-9	
Acenaphthylene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	208-96-8	
Anthracene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	207-08-9	
Chrysene	15.8 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	53-70-3	
luoranthene	8.7 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	206-44-0	
luorene	78.4 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	193-39-5	
-Methylnaphthalene	45.1 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	90-12-0	N2
-Methylnaphthalene	38.6 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	91-57-6	
laphthalene	8.2 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	91-20-3	
Phenanthrene	148 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	85-01-8	
Pyrene	15.5 ug/kg		6.2	1	06/05/13 13:35	06/06/13 16:11	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67 %.		3-110	1	06/05/13 13:35	06/06/13 16:11	321-60-8	
o-Terphenyl-d14 (S)	65 %.	32	2-111	1	06/05/13 13:35	06/06/13 16:11	1718-51-0	
Percent Moisture	Analytical Method:	ASTM D2974-87						
Percent Moisture	19.0 %		0.10	1		06/06/13 15:52		
500 Chloride in Soil	Analytical Method:	SM 4500-CI-E Prepar	ration M	1ethod	: SM 4500-CI-E			
Chloride	144 mg/kg		123	1	06/06/13 09:12	06/10/13 11:39	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 4 Lab ID: 5081252004 Collected: 05/31/13 08:00 Received: 05/31/13 12:08 Matrix: Solid

Parameters	Results	Units Rep	oort Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method	: EPA 8270 by SIN	 ∕I Preparati	on Met	hod: EPA 3546		_	
Acenaphthene	17.3 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	83-32-9	
Acenaphthylene	ND ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	208-96-8	
Anthracene	10.8 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	50-32-8	
Benzo(b)fluoranthene	7.6 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	207-08-9	
Chrysene	18.8 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	53-70-3	
Fluoranthene	14.7 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	206-44-0	
Fluorene	123 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	193-39-5	
l-Methylnaphthalene	110 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	90-12-0	N2
2-Methylnaphthalene	80.8 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	91-57-6	
Naphthalene	36.8 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	91-20-3	
Phenanthrene	180 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	85-01-8	
Pyrene	19.3 ug/kg		6.9	1	06/05/13 13:35	06/06/13 16:29	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	54 %.		38-110	1	06/05/13 13:35	06/06/13 16:29		
o-Terphenyl-d14 (S)	42 %.		32-111	1	06/05/13 13:35	06/06/13 16:29	1718-51-0	
Percent Moisture	Analytical Method	: ASTM D2974-87						
Percent Moisture	27.6 %		0.10	1		06/06/13 15:53		
500 Chloride in Soil	Analytical Method	: SM 4500-CI-E P	reparation l	Method	I: SM 4500-CI-E			
Chloride	ND mg/kg	3	138	1	06/06/13 09:12	06/10/13 11:40	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 5 Lab ID: 5081252005 Collected: 05/31/13 08:10 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Metho	d: EPA 8270	by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	8.2 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	83-32-9	
Acenaphthylene	ND ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	208-96-8	
Anthracene	ND ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	120-12-7	
Benzo(a)anthracene	9.6 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	56-55-3	
Benzo(a)pyrene	7.3 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	50-32-8	
Benzo(b)fluoranthene	7.4 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	205-99-2	
Benzo(g,h,i)perylene	ND ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	191-24-2	
Benzo(k)fluoranthene	6.7 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	207-08-9	
Chrysene	17.4 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	218-01-9	
Dibenz(a,h)anthracene	ND ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	53-70-3	
luoranthene	31.7 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	206-44-0	
Fluorene	77.9 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	193-39-5	
-Methylnaphthalene	52.0 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	90-12-0	N2
2-Methylnaphthalene	39.2 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	91-57-6	
Naphthalene	7.2 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	91-20-3	
Phenanthrene	125 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	85-01-8	
Pyrene	30.7 ug/k	g	6.2	1	06/05/13 13:35	06/06/13 16:47	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	52 %.		38-110	1	06/05/13 13:35			
o-Terphenyl-d14 (S)	58 %.		32-111	1	06/05/13 13:35	06/06/13 16:47	1718-51-0	
Percent Moisture	Analytical Metho	d: ASTM D2	974-87					
Percent Moisture	20.4 %		0.10	1		06/06/13 15:53		
500 Chloride in Soil	Analytical Metho	d: SM 4500-	CI-E Preparation i	Method	: SM 4500-CI-E			
Chloride	ND mg/l	kg	125	1	06/06/13 09:12	06/10/13 11:41	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 7 Lab ID: 5081252006 Collected: 05/31/13 08:30 Received: 05/31/13 12:08 Matrix: Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Meth	nod: EPA 827	0 by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	80.5 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	83-32-9	
Acenaphthylene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	208-96-8	
Anthracene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	120-12-7	
Benzo(a)anthracene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	56-55-3	
Benzo(a)pyrene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	50-32-8	
Benzo(b)fluoranthene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	205-99-2	
Benzo(g,h,i)perylene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	191-24-2	
Benzo(k)fluoranthene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	207-08-9	
Chrysene	142 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	218-01-9	
Dibenz(a,h)anthracene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	53-70-3	
luoranthene	65.4 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	206-44-0	
-luorene	765 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	193-39-5	
I-Methylnaphthalene	262 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	90-12-0	N2
2-Methylnaphthalene	130 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	91-57-6	
Naphthalene	ND ug	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	91-20-3	1d
Phenanthrene	1320 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	85-01-8	
Pyrene Surrogates	120 ug.	/kg	33.8	5	06/05/13 13:35	06/06/13 17:05	129-00-0	
2-Fluorobiphenyl (S)	67 %.		38-110	5	06/05/13 13:35	06/06/13 17:05	321-60-8	
o-Terphenyl-d14 (S)	74 %.		32-111	5		06/06/13 17:05		
Percent Moisture	Analytical Meth	nod: ASTM D	2974-87					
Percent Moisture	26.1 %		0.10	1		06/06/13 15:54		
1500 Chloride in Soil	Analytical Meth	nod: SM 4500	-CI-E Preparation I	Method	: SM 4500-CI-E			
Chloride	419 mg	g/kg	135	1	06/06/13 09:12	06/10/13 11:41	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 8 Lab ID: 5081252007 Collected: 05/31/13 08:40 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
270 MSSV PAH by SIM	Analytical Method	d: EPA 8270	by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	16.8 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	83-32-9	
Acenaphthylene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	208-96-8	
Anthracene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	120-12-7	
Benzo(a)anthracene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	56-55-3	
Benzo(a)pyrene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	50-32-8	
Benzo(b)fluoranthene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	191-24-2	
Benzo(k)fluoranthene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	207-08-9	
Chrysene	28.1 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	53-70-3	
luoranthene	11.7 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	206-44-0	
luorene	150 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	193-39-5	
-Methylnaphthalene	82.1 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	90-12-0	N2
2-Methylnaphthalene	69.4 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	91-57-6	
Naphthalene	12.6 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	91-20-3	
Phenanthrene	277 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	85-01-8	
Pyrene	24.5 ug/kg	g	6.4	1	06/05/13 13:35	06/06/13 17:23	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	46 %.		38-110	1	06/05/13 13:35			
p-Terphenyl-d14 (S)	44 %.		32-111	1	06/05/13 13:35	06/06/13 17:23	1718-51-0	
Percent Moisture	Analytical Method	d: ASTM D29	74-87					
Percent Moisture	21.9 %		0.10	1		06/06/13 15:54		
500 Chloride in Soil	Analytical Method	d: SM 4500-0	I-E Preparation I	Method	I: SM 4500-CI-E			
Chloride	185 mg/k	g	128	1	06/06/13 09:12	06/10/13 11:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 9 Lab ID: 5081252008 Collected: 05/31/13 08:50 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weigl	ht" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV PAH by SIM	Analytical Method	d: EPA 8270 b	y SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	117 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	83-32-9	
Acenaphthylene	ND ug/kg	j	32.9	5	06/05/13 13:35	06/06/13 17:42	208-96-8	
Anthracene	ND ug/kg	j	32.9	5	06/05/13 13:35	06/06/13 17:42	120-12-7	
Benzo(a)anthracene	ND ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	56-55-3	
Benzo(a)pyrene	ND ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	50-32-8	
Benzo(b)fluoranthene	ND ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	j	32.9	5	06/05/13 13:35	06/06/13 17:42	191-24-2	
Benzo(k)fluoranthene	ND ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	207-08-9	
Chrysene	145 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	53-70-3	
Fluoranthene	83.2 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	206-44-0	
luorene	953 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	193-39-5	
l-Methylnaphthalene	785 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	90-12-0	N2
2-Methylnaphthalene	629 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	91-57-6	
Naphthalene	120 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	91-20-3	1d
Phenanthrene	1570 ug/kg)	32.9	5	06/05/13 13:35	06/06/13 17:42	85-01-8	
Pyrene	135 ug/kg	3	32.9	5	06/05/13 13:35	06/06/13 17:42	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	78 %.		38-110	5	06/05/13 13:35	06/06/13 17:42	321-60-8	
o-Terphenyl-d14 (S)	77 %.		32-111	5	06/05/13 13:35	06/06/13 17:42	1718-51-0	
Percent Moisture	Analytical Method	1: ASTM D297	4-87					
Percent Moisture	24.5 %		0.10	1		06/06/13 15:54		
500 Chloride in Soil	Analytical Method	1: SM 4500-CI	E Preparation I	Method	: SM 4500-CI-E			
Chloride	187 mg/k	g	132	1	06/06/13 09:12	06/10/13 11:44	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 10 Lab ID: 5081252009 Collected: 05/31/13 09:00 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weigh	nt" basis							
Parameters	Results	Units R	eport Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Metho	d: EPA 8270 by S	IM Preparat	ion Met	hod: EPA 3546			
Acenaphthene	23.3 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	83-32-9	
Acenaphthylene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	208-96-8	
Anthracene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	120-12-7	
Benzo(a)anthracene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	56-55-3	
Benzo(a)pyrene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	50-32-8	
Benzo(b)fluoranthene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	205-99-2	
Benzo(g,h,i)perylene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	191-24-2	
Benzo(k)fluoranthene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	207-08-9	
Chrysene	31.3 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	218-01-9	
Dibenz(a,h)anthracene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	53-70-3	
luoranthene	17.1 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	206-44-0	
luorene	199 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	193-39-5	
-Methylnaphthalene	144 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	90-12-0	N2
?-Methylnaphthalene	143 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	91-57-6	
Naphthalene	31.0 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	91-20-3	
Phenanthrene	346 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	85-01-8	
Pyrene	30.0 ug/k	g	6.4	1	06/05/13 13:35	06/06/13 18:00	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66 %.		38-110	1	06/05/13 13:35	06/06/13 18:00	321-60-8	
o-Terphenyl-d14 (S)	66 %.		32-111	1	06/05/13 13:35	06/06/13 18:00	1718-51-0	
Percent Moisture	Analytical Metho	d: ASTM D2974-8	37					
Percent Moisture	23.0 %		0.10	1		06/06/13 15:54		
500 Chloride in Soil	Analytical Metho	d: SM 4500-CI-E	Preparation	Method	: SM 4500-CI-E			
Chloride	169 mg/l	kg	129	1	06/06/13 09:12	06/10/13 11:45	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 11 Lab ID: 5081252010 Collected: 05/31/13 09:10 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis						
Parameters	Results	Units Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method:	EPA 8270 by SIM Preparat	ion Met	thod: EPA 3546			
Acenaphthene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	83-32-9	
Acenaphthylene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	208-96-8	
Anthracene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	120-12-7	
Benzo(a)anthracene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	56-55-3	
Benzo(a)pyrene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	50-32-8	
Benzo(b)fluoranthene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	191-24-2	
Benzo(k)fluoranthene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	207-08-9	
Chrysene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	53-70-3	
luoranthene	10.0 ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	206-44-0	
luorene	14.4 ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	193-39-5	
-Methylnaphthalene	13.8 ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	90-12-0	N2
-Methylnaphthalene	10.5 ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	91-57-6	
Naphthalene	ND ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	91-20-3	
Phenanthrene	29.8 ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	85-01-8	
Pyrene	8.9 ug/kg	6.1	1	06/10/13 11:55	06/11/13 05:29	129-00-0	
Surrogates							
2-Fluorobiphenyl (S)	63 %.	38-110	1	06/10/13 11:55	06/11/13 05:29		
o-Terphenyl-d14 (S)	54 %.	32-111	1	06/10/13 11:55	06/11/13 05:29	1718-51-0	
ercent Moisture	Analytical Method:	ASTM D2974-87					
Percent Moisture	18.7 %	0.10	1		06/06/13 15:54		
500 Chloride in Soil	Analytical Method:	SM 4500-CI-E Preparation	Method	l: SM 4500-CI-E			
Chloride	ND mg/kg	122	1	06/06/13 09:12	06/10/13 11:46	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 12 Lab ID: 5081252011 Collected: 05/31/13 09:20 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units F	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method	: EPA 8270 by \$	SIM Preparati	ion Met	thod: EPA 3546			
Acenaphthene	7.4 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	83-32-9	
Acenaphthylene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	208-96-8	
Anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	207-08-9	
Chrysene	14.5 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	53-70-3	
Fluoranthene	14.5 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	206-44-0	
Fluorene	71.6 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	193-39-5	
1-Methylnaphthalene	50.5 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	90-12-0	N2
2-Methylnaphthalene	55.8 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	91-57-6	
Naphthalene	9.7 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	91-20-3	
Phenanthrene	132 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	85-01-8	
Pyrene	17.4 ug/kg		6.4	1	06/05/13 13:35	06/06/13 18:36	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	57 %.		38-110	1	06/05/13 13:35			
p-Terphenyl-d14 (S)	50 %.		32-111	1	06/05/13 13:35	06/06/13 18:36	1718-51-0	
Percent Moisture	Analytical Method	: ASTM D2974-	87					
Percent Moisture	21.8 %		0.10	1		06/06/13 15:54		
4500 Chloride in Soil	Analytical Method	: SM 4500-CI-E	Preparation	Method	l: SM 4500-CI-E			
Chloride	165 mg/kg)	127	1	06/06/13 09:12	06/10/13 11:46	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 13 Lab ID: 5081252012 Collected: 05/31/13 09:30 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units Repo	rt Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method	: EPA 8270 by SIM	Preparati	on Met	hod: EPA 3546			
Acenaphthene	6.5 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	83-32-9	
Acenaphthylene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	208-96-8	
Anthracene	7.0 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	120-12-7	
Benzo(a)anthracene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	56-55-3	
Benzo(a)pyrene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	207-08-9	
Chrysene	17.8 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	53-70-3	
luoranthene	12.9 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	206-44-0	
luorene	65.2 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	193-39-5	
-Methylnaphthalene	33.7 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	90-12-0	N2
2-Methylnaphthalene	36.1 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	91-57-6	
Naphthalene	ND ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	91-20-3	
Phenanthrene	146 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	85-01-8	
Pyrene	18.0 ug/kg		5.9	1	06/05/13 13:35	06/06/13 18:54	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60 %.		38-110	1	06/05/13 13:35	06/06/13 18:54		
o-Terphenyl-d14 (S)	54 %.		32-111	1	06/05/13 13:35	06/06/13 18:54	1718-51-0	
Percent Moisture	Analytical Method	: ASTM D2974-87						
Percent Moisture	16.1 %		0.10	1		06/06/13 15:54		
500 Chloride in Soil	Analytical Method	: SM 4500-CI-E Pre	paration I	Method	: SM 4500-CI-E			
Chloride	ND mg/kg	3	119	1	06/06/13 09:12	06/10/13 11:47	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 14 Lab ID: 5081252013 Collected: 05/31/13 09:40 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units Rep	ort Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method	: EPA 8270 by SIN	1 Preparati	on Met	hod: EPA 3546			
Acenaphthene	14.7 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	83-32-9	
Acenaphthylene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	208-96-8	
Anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	207-08-9	
Chrysene	21.6 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	53-70-3	
luoranthene	10.1 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	206-44-0	
luorene	131 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	193-39-5	
-Methylnaphthalene	76.5 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	90-12-0	N2
2-Methylnaphthalene	76.2 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	91-57-6	
Naphthalene	15.6 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	91-20-3	
Phenanthrene	237 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	85-01-8	
Pyrene	20.0 ug/kg		6.4	1	06/05/13 13:35	06/06/13 19:12	129-00-0	
Surrogates								
?-Fluorobiphenyl (S)	63 %.		38-110	1	06/05/13 13:35	06/06/13 19:12	321-60-8	
-Terphenyl-d14 (S)	71 %.		32-111	1	06/05/13 13:35	06/06/13 19:12	1718-51-0	
Percent Moisture	Analytical Method	: ASTM D2974-87						
Percent Moisture	22.3 %		0.10	1		06/06/13 15:55		
500 Chloride in Soil	Analytical Method	: SM 4500-CI-E P	reparation	Method	: SM 4500-CI-E			
Chloride	405 mg/kg	3	128	1	06/06/13 09:12	06/10/13 11:48	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 15 Lab ID: 5081252014 Collected: 05/31/13 09:45 Received: 05/31/13 12:08 Matrix: Solid

Parameters	Results	Units Report Lim	t DF	Prepared	Analyzed	CAS No.	Qua
270 MSSV PAH by SIM	Analytical Method	EPA 8270 by SIM Prepa	ration Me	ethod: EPA 3546			
Acenaphthene	ND ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	83-32-9	
Acenaphthylene	12.2 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	208-96-8	
Anthracene	8.8 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	120-12-7	
Benzo(a)anthracene	10.7 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	56-55-3	
Benzo(a)pyrene	9.2 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	50-32-8	
Benzo(b)fluoranthene	11.0 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	205-99-2	
Benzo(g,h,i)perylene	7.1 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	191-24-2	
Benzo(k)fluoranthene	9.8 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	207-08-9	
Chrysene	23.2 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	53-70-3	
luoranthene	18.9 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	206-44-0	
luorene	54.7 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	193-39-5	
-Methylnaphthalene	19.6 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	90-12-0	N2
-Methylnaphthalene	21.2 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	91-57-6	
laphthalene	ND ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	91-20-3	
Phenanthrene	127 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	85-01-8	
Pyrene	21.3 ug/kg	6	3 1	06/05/13 13:35	06/06/13 19:30	129-00-0	
Surrogates							
2-Fluorobiphenyl (S)	64 %.	38-1	0 1	06/05/13 13:35	06/06/13 19:30	321-60-8	
-Terphenyl-d14 (S)	59 %.	32-1	1 1	06/05/13 13:35	06/06/13 19:30	1718-51-0	
ercent Moisture	Analytical Method	ASTM D2974-87					
Percent Moisture	20.8 %	0.	0 1		06/06/13 15:55		
500 Chloride in Soil	Analytical Method	SM 4500-CI-E Preparati	on Metho	d: SM 4500-CI-E			
Chloride	159 mg/kg	12	6 1	00/00/40 00 40	06/10/13 11:48	10007.00.0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 16 Lab ID: 5081252015 Collected: 05/31/13 09:15 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ht" basis						
Parameters	Results	Units Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method:	EPA 8270 by SIM Prepar	ation Me	thod: EPA 3546			
Acenaphthene	14.4 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	83-32-9	
Acenaphthylene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	208-96-8	
Anthracene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	120-12-7	
Benzo(a)anthracene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	56-55-3	
Benzo(a)pyrene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	50-32-8	
Benzo(b)fluoranthene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	191-24-2	
Benzo(k)fluoranthene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	207-08-9	
Chrysene	22.4 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	53-70-3	
Fluoranthene	11.0 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	206-44-0	
luorene	132 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	193-39-5	
I-Methylnaphthalene	66.1 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	90-12-0	N2
2-Methylnaphthalene	69.3 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	91-57-6	
Naphthalene	11.0 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	91-20-3	
Phenanthrene	239 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	85-01-8	
Pyrene	20.1 ug/kg	6.	1 1	06/05/13 13:35	06/06/13 19:48	129-00-0	
Surrogates							
2-Fluorobiphenyl (S)	67 %.	38-11		06/05/13 13:35	06/06/13 19:48	321-60-8	
o-Terphenyl-d14 (S)	66 %.	32-11	1 1	06/05/13 13:35	06/06/13 19:48	1718-51-0	
Percent Moisture	Analytical Method:	ASTM D2974-87					
Percent Moisture	22.7 %	0.1) 1		06/06/13 15:55		
500 Chloride in Soil	Analytical Method:	SM 4500-CI-E Preparation	n Metho	d: SM 4500-CI-E			
Chloride	254 mg/kg	12'	9 1	06/06/13 09:12	06/10/13 11:49	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 17 Lab ID: 5081252016 Collected: 05/31/13 09:25 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weight" basis

Results reported on a "dry-weigl								
Parameters	Results	Units Rep	ort Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method	d: EPA 8270 by SIN	1 Preparat	ion Met	hod: EPA 3546			
Acenaphthene	ND ug/kg	9	6.6	1	06/05/13 13:35	06/06/13 20:06	83-32-9	
Acenaphthylene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	208-96-8	
Anthracene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	120-12-7	
Benzo(a)anthracene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	56-55-3	
Benzo(a)pyrene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	50-32-8	
Benzo(b)fluoranthene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	191-24-2	
Benzo(k)fluoranthene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	207-08-9	
Chrysene	9.3 ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	53-70-3	
luoranthene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	206-44-0	
luorene	50.9 ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	193-39-5	
-Methylnaphthalene	25.6 ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	90-12-0	N2
2-Methylnaphthalene	24.0 ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	91-57-6	
Naphthalene	7.9 ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	91-20-3	
Phenanthrene	91.9 ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	85-01-8	
Pyrene	10.1 ug/kg	g	6.6	1	06/05/13 13:35	06/06/13 20:06	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	60 %.		38-110	1	06/05/13 13:35	06/06/13 20:06	321-60-8	
o-Terphenyl-d14 (S)	53 %.		32-111	1	06/05/13 13:35	06/06/13 20:06	1718-51-0	
Percent Moisture	Analytical Method	d: ASTM D2974-87						
Percent Moisture	25.1 %		0.10	1		06/06/13 15:55		
500 Chloride in Soil	Analytical Method	d: SM 4500-CI-E P	reparation	Method	: SM 4500-CI-E			
Chloride	293 mg/k	g	133	1	06/06/13 09:12	06/10/13 11:50	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: 18 Lab ID: 5081252017 Collected: 05/31/13 09:05 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units Report Lir	nit D	F	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method:	EPA 8270 by SIM Prep	aration	Met	hod: EPA 3546			
Acenaphthene	10 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	83-32-9	
Acenaphthylene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	208-96-8	
Anthracene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	207-08-9	
Chrysene	16.5 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	53-70-3	
luoranthene	7.7 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	206-44-0	
luorene	85.2 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	193-39-5	
-Methylnaphthalene	54.7 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	90-12-0	N2
-Methylnaphthalene	64.6 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	91-57-6	
laphthalene	11.0 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	91-20-3	
henanthrene	162 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	85-01-8	
Pyrene	14.4 ug/kg		6.6	1	06/05/13 13:35	06/06/13 20:24	129-00-0	
Surrogates								
?-Fluorobiphenyl (S)	63 %.	38-		1	06/05/13 13:35			
-Terphenyl-d14 (S)	66 %.	32-	111	1	06/05/13 13:35	06/06/13 20:24	1718-51-0	
ercent Moisture	Analytical Method:	ASTM D2974-87						
Percent Moisture	23.9 %	0	.10	1		06/06/13 15:56		
500 Chloride in Soil	Analytical Method:	SM 4500-CI-E Prepara	tion Met	thod	: SM 4500-CI-E			
Chloride	232 mg/kg		131	1	06/06/13 09:12	06/10/13 11:51	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: R01 Lab ID: 5081252018 Collected: 05/31/13 09:35 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weigh Parameters	Results	Units Rep	ort Limit	DF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV PAH by SIM	Analytical Method:	: EPA 8270 by SIM	Preparati	on Met				
Acenaphthene	10.2 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	83-32-9	
Acenaphthylene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	208-96-8	
Anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	207-08-9	
Chrysene	13.7 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	53-70-3	
luoranthene	8.0 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	206-44-0	
luorene	85.5 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	193-39-5	
l-Methylnaphthalene	61.6 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	90-12-0	N2
2-Methylnaphthalene	48.6 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	91-57-6	
Naphthalene	10.1 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	91-20-3	
Phenanthrene	140 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	85-01-8	
Pyrene	13.3 ug/kg		6.4	1	06/05/13 13:35	06/06/13 21:19	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	62 %.		38-110	1	06/05/13 13:35	06/06/13 21:19	321-60-8	
o-Terphenyl-d14 (S)	50 %.		32-111	1	06/05/13 13:35	06/06/13 21:19	1718-51-0	
Percent Moisture	Analytical Method:	: ASTM D2974-87						
Percent Moisture	22.2 %		0.10	1		06/06/13 15:56		
500 Chloride in Soil	Analytical Method:	: SM 4500-CI-E Pr	eparation I	Method	: SM 4500-CI-E			
Chloride	253 mg/kg	1	129	1	06/06/13 09:12	06/10/13 11:54	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: R02 Lab ID: 5081252019 Collected: 05/31/13 09:38 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
270 MSSV PAH by SIM	Analytical Method:	: EPA 8270 by	/ SIM Preparati	ion Met	hod: EPA 3546			
Acenaphthene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	83-32-9	
Acenaphthylene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	208-96-8	
Anthracene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	120-12-7	
Benzo(a)anthracene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	56-55-3	
Benzo(a)pyrene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	207-08-9	
Chrysene	11.0 ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	53-70-3	
luoranthene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	206-44-0	
luorene	60.1 ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	193-39-5	
-Methylnaphthalene	37.0 ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	90-12-0	N2
-Methylnaphthalene	39.1 ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	91-57-6	
laphthalene	6.5 ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	91-20-3	
Phenanthrene	114 ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	85-01-8	
Pyrene	10.6 ug/kg		6.5	1	06/05/13 13:35	06/06/13 21:37	129-00-0	
Surrogates								
?-Fluorobiphenyl (S)	63 %.		38-110	1	06/05/13 13:35	06/06/13 21:37	321-60-8	
-Terphenyl-d14 (S)	62 %.		32-111	1	06/05/13 13:35	06/06/13 21:37	1718-51-0	
ercent Moisture	Analytical Method:	: ASTM D297	4-87					
Percent Moisture	22.7 %		0.10	1		06/06/13 15:56		
500 Chloride in Soil	Analytical Method:	: SM 4500-CI-	E Preparation	Method	I: SM 4500-CI-E			
Chloride	ND mg/kg	1	129	1	06/06/13 09:12	06/10/13 11:55	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Sample: DUP Lab ID: 5081252020 Collected: 05/31/13 08:00 Received: 05/31/13 12:08 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Meth	hod: EPA 827	0 by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	83-32-9	
Acenaphthylene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	208-96-8	
Anthracene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	120-12-7	
Benzo(a)anthracene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	56-55-3	
Benzo(a)pyrene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	50-32-8	
Benzo(b)fluoranthene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	205-99-2	
Benzo(g,h,i)perylene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	191-24-2	
Benzo(k)fluoranthene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	207-08-9	
Chrysene	45.4 ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	218-01-9	
Dibenz(a,h)anthracene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	53-70-3	
luoranthene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	206-44-0	
luorene	284 ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	193-39-5	
-Methylnaphthalene	177 ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	90-12-0	N2
2-Methylnaphthalene	147 ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	91-57-6	
Naphthalene	33.5 ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	91-20-3	1d
Phenanthrene	484 ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	85-01-8	
Pyrene	39.5 ug	ı/kg	32.6	5	06/05/13 13:35	06/06/13 22:31	129-00-0	
Surrogates								
?-Fluorobiphenyl (S)	67 %		38-110	5	06/05/13 13:35			
p-Terphenyl-d14 (S)	71 %		32-111	5	06/05/13 13:35	06/06/13 22:31	1718-51-0	
ercent Moisture	Analytical Meti	hod: ASTM D	2974-87					
Percent Moisture	23.3 %		0.10	1		06/06/13 15:56		
500 Chloride in Soil	Analytical Meth	hod: SM 4500	-CI-E Preparation I	Method	I: SM 4500-CI-E			
Chloride	328 mg	g/kg	130	1	06/06/13 09:12	06/10/13 11:56	16887-00-6	

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALITY CONTROL DATA

Project: Citizens Energy Group

Pace Project No.: 5081252

QC Batch: OEXT/32976 Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM

Associated Lab Samples: 5081252001, 5081252002, 5081252003, 5081252004, 5081252005, 5081252006, 5081252007, 5081252008,

5081252009, 5081252011, 5081252012, 5081252013, 5081252014, 5081252015, 5081252016, 5081252017,

5081252018, 5081252019, 5081252020

METHOD BLANK: 926702 Matrix: Solid

Associated Lab Samples: 5081252001, 5081252002, 5081252003, 5081252004, 5081252005, 5081252006, 5081252007, 5081252008,

5081252009, 5081252011, 5081252012, 5081252013, 5081252014, 5081252015, 5081252016, 5081252017,

5081252018, 5081252019, 5081252020

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND	5.0	06/06/13 14:58	N2
2-Methylnaphthalene	ug/kg	ND	5.0	06/06/13 14:58	
Acenaphthene	ug/kg	ND	5.0	06/06/13 14:58	
Acenaphthylene	ug/kg	ND	5.0	06/06/13 14:58	
Anthracene	ug/kg	ND	5.0	06/06/13 14:58	
Benzo(a)anthracene	ug/kg	ND	5.0	06/06/13 14:58	
Benzo(a)pyrene	ug/kg	ND	5.0	06/06/13 14:58	
Benzo(b)fluoranthene	ug/kg	ND	5.0	06/06/13 14:58	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	06/06/13 14:58	
Benzo(k)fluoranthene	ug/kg	ND	5.0	06/06/13 14:58	
Chrysene	ug/kg	ND	5.0	06/06/13 14:58	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	06/06/13 14:58	
Fluoranthene	ug/kg	ND	5.0	06/06/13 14:58	
Fluorene	ug/kg	ND	5.0	06/06/13 14:58	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	06/06/13 14:58	
Naphthalene	ug/kg	ND	5.0	06/06/13 14:58	
Phenanthrene	ug/kg	ND	5.0	06/06/13 14:58	
Pyrene	ug/kg	ND	5.0	06/06/13 14:58	
2-Fluorobiphenyl (S)	%.	70	38-110	06/06/13 14:58	
p-Terphenyl-d14 (S)	%.	74	32-111	06/06/13 14:58	

LABORATORY CONTROL SAMPLE: 926703

Date: 06/12/2013 04:26 PM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	197	59	40-102	N2
2-Methylnaphthalene	ug/kg	333	203	61	39-104	
Acenaphthene	ug/kg	333	209	63	43-108	
Acenaphthylene	ug/kg	333	216	65	44-110	
Anthracene	ug/kg	333	216	65	44-112	
Benzo(a)anthracene	ug/kg	333	227	68	43-124	
Benzo(a)pyrene	ug/kg	333	223	67	44-124	
Benzo(b)fluoranthene	ug/kg	333	228	68	44-123	
Benzo(g,h,i)perylene	ug/kg	333	218	65	44-118	
Benzo(k)fluoranthene	ug/kg	333	234	70	42-122	
Chrysene	ug/kg	333	233	70	44-124	
Dibenz(a,h)anthracene	ug/kg	333	220	66	44-119	
Fluoranthene	ug/kg	333	225	68	45-119	
Fluorene	ug/kg	333	210	63	44-113	

REPORT OF LABORATORY ANALYSIS





Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

LABORATORY CONTROL SAMPLE:

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Indeno(1,2,3-cd)pyrene	ug/kg	333	219	66	44-119	
Naphthalene	ug/kg	333	200	60	42-103	
Phenanthrene	ug/kg	333	215	64	44-113	
Pyrene	ug/kg	333	229	69	45-123	
2-Fluorobiphenyl (S)	%.			59	38-110	
p-Terphenyl-d14 (S)	%.			66	32-111	

MATRIX SPIKE & MATRIX S	PIKE DUPLICAT	E: 92670	4		926705		•					
			MS	MSD								
	50	081252017	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1-Methylnaphthalene	ug/kg	54.7	438	435	329	315	63	60	20-116	4	20	N2
2-Methylnaphthalene	ug/kg	64.6	438	435	340	338	63	63	10-131	1	20	
Acenaphthene	ug/kg	10	438	435	292	240	64	53	25-117	20	20	
Acenaphthylene	ug/kg	ND	438	435	296	235	68	54	27-123	23	20	R1
Anthracene	ug/kg	ND	438	435	290	201	66	46	20-123	36	20	R1
Benzo(a)anthracene	ug/kg	ND	438	435	267	176	61	41	23-124	41	20	R1
Benzo(a)pyrene	ug/kg	ND	438	435	254	172	58	40	23-120	38	20	R1
Benzo(b)fluoranthene	ug/kg	ND	438	435	248	170	57	39	24-117	37	20	R1
Benzo(g,h,i)perylene	ug/kg	ND	438	435	226	157	52	36	12-122	36	20	R1
Benzo(k)fluoranthene	ug/kg	ND	438	435	241	169	55	39	14-123	35	20	R1
Chrysene	ug/kg	16.5	438	435	273	181	59	38	22-124	41	20	R1
Dibenz(a,h)anthracene	ug/kg	ND	438	435	237	167	54	38	26-113	35	20	R1
Fluoranthene	ug/kg	7.7	438	435	280	184	62	41	21-125	41	20	R1
Fluorene	ug/kg	85.2	438	435	329	283	56	45	19-127	15	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	438	435	229	164	52	38	15-121	33	20	R1
Naphthalene	ug/kg	11.0	438	435	313	277	69	61	15-125	12	20	
Phenanthrene	ug/kg	162	438	435	375	300	49	32	10-139	22	20	R1
Pyrene	ug/kg	14.4	438	435	278	182	60	38	17-132	42	20	R1
2-Fluorobiphenyl (S)	%.						61	57	38-110		20	
p-Terphenyl-d14 (S)	%.						58	51	32-111		20	

REPORT OF LABORATORY ANALYSIS





Project: Citizens Energy Group

Pace Project No.: 5081252

QC Batch: OEXT/32998 Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM

Associated Lab Samples: 5081252010

METHOD BLANK: 928947 Matrix: Solid

Associated Lab Samples: 5081252010

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1-Methylnaphthalene	 ug/kg	ND	5.0	06/11/13 00:21	N2
2-Methylnaphthalene	ug/kg	ND	5.0	06/11/13 00:21	
Acenaphthene	ug/kg	ND	5.0	06/11/13 00:21	
Acenaphthylene	ug/kg	ND	5.0	06/11/13 00:21	
Anthracene	ug/kg	ND	5.0	06/11/13 00:21	
Benzo(a)anthracene	ug/kg	ND	5.0	06/11/13 00:21	
Benzo(a)pyrene	ug/kg	ND	5.0	06/11/13 00:21	
Benzo(b)fluoranthene	ug/kg	ND	5.0	06/11/13 00:21	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	06/11/13 00:21	
Benzo(k)fluoranthene	ug/kg	ND	5.0	06/11/13 00:21	
Chrysene	ug/kg	ND	5.0	06/11/13 00:21	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	06/11/13 00:21	
Fluoranthene	ug/kg	ND	5.0	06/11/13 00:21	
Fluorene	ug/kg	ND	5.0	06/11/13 00:21	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	06/11/13 00:21	
Naphthalene	ug/kg	ND	5.0	06/11/13 00:21	
Phenanthrene	ug/kg	ND	5.0	06/11/13 00:21	
Pyrene	ug/kg	ND	5.0	06/11/13 00:21	
2-Fluorobiphenyl (S)	%.	68	38-110	06/11/13 00:21	
p-Terphenyl-d14 (S)	%.	74	32-111	06/11/13 00:21	

EMBOTOTT CONTINUE CAMIN EE. 520040	LABORATORY	CONTROL	SAMPLE:	928948
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Date: 06/12/2013 04:26 PM

2 12 3 1 3 1 1 3 1 1 1 3 2 3 1 1 1 1 2 2 1	0200.0					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	213	64	40-102	N2
2-Methylnaphthalene	ug/kg	333	222	66	39-104	
Acenaphthene	ug/kg	333	230	69	43-108	
Acenaphthylene	ug/kg	333	246	74	44-110	
Anthracene	ug/kg	333	235	70	44-112	
Benzo(a)anthracene	ug/kg	333	256	77	43-124	
Benzo(a)pyrene	ug/kg	333	248	74	44-124	
Benzo(b)fluoranthene	ug/kg	333	246	74	44-123	
Benzo(g,h,i)perylene	ug/kg	333	236	71	44-118	
Benzo(k)fluoranthene	ug/kg	333	250	75	42-122	
Chrysene	ug/kg	333	249	75	44-124	
Dibenz(a,h)anthracene	ug/kg	333	239	72	44-119	
Fluoranthene	ug/kg	333	250	75	45-119	
Fluorene	ug/kg	333	242	72	44-113	
Indeno(1,2,3-cd)pyrene	ug/kg	333	238	71	44-119	
Naphthalene	ug/kg	333	214	64	42-103	
Phenanthrene	ug/kg	333	236	71	44-113	

REPORT OF LABORATORY ANALYSIS



Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

LABORATORY CONTROL SAMPLE: 928948

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	248	74	45-123	
2-Fluorobiphenyl (S)	%.			66	38-110	
p-Terphenyl-d14 (S)	%.			73	32-111	

MATRIX SPIKE & MATRIX S	PIKE DUPLICAT	E: 92894	9		928950							
			MS	MSD								
	50	081654001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
1-Methylnaphthalene	ug/kg	ND	380	380	206	228	54	60	20-116	10	20	N2
2-Methylnaphthalene	ug/kg	ND	380	380	212	234	56	61	10-131	10	20	
Acenaphthene	ug/kg	ND	380	380	229	242	60	64	25-117	5	20	
Acenaphthylene	ug/kg	ND	380	380	242	259	64	68	27-123	7	20	
Anthracene	ug/kg	ND	380	380	242	245	64	65	20-123	1	20	
Benzo(a)anthracene	ug/kg	ND	380	380	251	247	66	65	23-124	2	20	
Benzo(a)pyrene	ug/kg	ND	380	380	234	231	62	61	23-120	1	20	
Benzo(b)fluoranthene	ug/kg	ND	380	380	236	230	62	60	24-117	3	20	
Benzo(g,h,i)perylene	ug/kg	ND	380	380	216	208	57	55	12-122	4	20	
Benzo(k)fluoranthene	ug/kg	ND	380	380	233	224	61	59	14-123	4	20	
Chrysene	ug/kg	ND	380	380	248	239	65	63	22-124	4	20	
Dibenz(a,h)anthracene	ug/kg	ND	380	380	229	215	60	56	26-113	6	20	
Fluoranthene	ug/kg	ND	380	380	248	249	65	66	21-125	1	20	
Fluorene	ug/kg	ND	380	380	242	255	64	67	19-127	5	20	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	380	380	223	213	59	56	15-121	5	20	
Naphthalene	ug/kg	ND	380	380	207	229	54	60	15-125	10	20	
Phenanthrene	ug/kg	ND	380	380	241	243	63	64	10-139	1	20	
Pyrene	ug/kg	ND	380	380	249	246	65	65	17-132	1	20	
2-Fluorobiphenyl (S)	%.						56	60	38-110		20	
p-Terphenyl-d14 (S)	%.						62	62	32-111		20	

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

Qualifiers

QUALITY CONTROL DATA

Project: Citizens Energy Group

Pace Project No.: 5081252

QC Batch: PMST/8358 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 5081252001, 5081252002, 5081252003, 5081252004, 5081252005, 5081252006, 5081252007, 5081252008,

5081252017, 5081252018, 5081252019, 5081252020

SAMPLE DUPLICATE: 927835

Parameter

 Units
 5081252001 Result
 Dup Result
 Max RPD
 Qualifiers

 %
 25.2
 25.7
 2
 5

SAMPLE DUPLICATE: 927836

Date: 06/12/2013 04:26 PM

Percent Moisture

5081252017 Dup Max Parameter Units Result Result RPD RPD

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALITY CONTROL DATA

Project: Citizens Energy Group

Pace Project No.: 5081252

Chloride

QC Batch: WETA/9974 Analysis Method: SM 4500-CI-E QC Batch Method: 4500 Chloride SM 4500-CI-E Analysis Description:

5081252001, 5081252002, 5081252003, 5081252004, 5081252005, 5081252006, 5081252007, 5081252008, Associated Lab Samples: 5081252009, 5081252010, 5081252011, 5081252012, 5081252013, 5081252014, 5081252015, 5081252016,

5081252017, 5081252018, 5081252019, 5081252020

METHOD BLANK: 926297 Matrix: Solid

5081252001, 5081252002, 5081252003, 5081252004, 5081252005, 5081252006, 5081252007, 5081252008, Associated Lab Samples:

5081252009, 5081252010, 5081252011, 5081252012, 5081252013, 5081252014, 5081252015, 5081252016,

Reporting

5081252017, 5081252018, 5081252019, 5081252020

Blank Parameter Units Result Limit Analyzed Qualifiers ND 100 06/10/13 11:36 mg/kg

LABORATORY CONTROL SAMPLE: 926069

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Chloride 200 182 91 90-110 mg/kg

MATRIX SPIKE SAMPLE: 926070

Date: 06/12/2013 04:26 PM

5081252001 MS MS % Rec Spike Units % Rec Qualifiers Parameter Result Conc. Result Limits 218 Chloride 485 100 mg/kg 268 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 926072

MS MSD 5081252017 Spike Spike MS MSD MS MSD % Rec Max % Rec RPD RPD Parameter Units Result Conc Conc. Result Result % Rec Limits Qual Chloride mg/kg 232 263 263 486 484 97 90-110 0 20

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALIFIERS

Project: Citizens Energy Group

Pace Project No.: 5081252

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 06/12/2013 04:26 PM

1d Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 06/07/13

N2 The lab does not hold TNI accreditation for this parameter.

R1 RPD value was outside control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5081252001		EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252002	2	EPA 3546		EPA 8270 by SIM	MSSV/12700
5081252003	3	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252004	4	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252005	5	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252006	7	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252007	8	EPA 3546		EPA 8270 by SIM	MSSV/12700
5081252008	9	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252009	10	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252010	11	EPA 3546	OEXT/32998	EPA 8270 by SIM	MSSV/12728
5081252011	12	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252012	13	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252013	14	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252014	15	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252015	16	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252016	17	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252017	18	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252018	R01	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252019	R02	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252020	DUP	EPA 3546	OEXT/32976	EPA 8270 by SIM	MSSV/12700
5081252001	1	ASTM D2974-87	PMST/8358		
5081252002	2	ASTM D2974-87	PMST/8358		
5081252003	3	ASTM D2974-87	PMST/8358		
5081252004	4	ASTM D2974-87	PMST/8358		
5081252005	5	ASTM D2974-87	PMST/8358		
5081252006	7	ASTM D2974-87	PMST/8358		
5081252007	8	ASTM D2974-87	PMST/8358		
5081252008	9	ASTM D2974-87	PMST/8358		
5081252009	10	ASTM D2974-87	PMST/8358		
5081252010	11	ASTM D2974-87	PMST/8358		
5081252011	12	ASTM D2974-87	PMST/8358		
5081252012	13	ASTM D2974-87	PMST/8358		
5081252013	14	ASTM D2974-87	PMST/8358		
5081252014	15	ASTM D2974-87	PMST/8358		
5081252015	16	ASTM D2974-87	PMST/8358		
5081252016	17	ASTM D2974-87	PMST/8358		
5081252017	18	ASTM D2974-87	PMST/8358		
5081252018	R01	ASTM D2974-87	PMST/8358		
5081252019	R02	ASTM D2974-87	PMST/8358		
5081252020	DUP	ASTM D2974-87	PMST/8358		
5081252001	1	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252002	2	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252003	3	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252004	4	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252005	5	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252006	7	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252007	8	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Citizens Energy Group

Pace Project No.: 5081252

Date: 06/12/2013 04:26 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5081252008	9	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252009	10	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252010	11	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252011	12	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252012	13	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252013	14	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252014	15	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252015	16	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252016	17	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252017	18	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252018	R01	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252019	R02	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002
5081252020	DUP	SM 4500-CI-E	WETA/9974	SM 4500-CI-E	WETA/10002

EPA-R5-2017-008149_0000236



CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information: Section B Required Project Information:	territoria de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata de la contrata de la contrata del contrata de la contrata del contrata del contrata del contrata del contrata de la contrata del co	Section C	No est diagram	\wo	Page: 1 of 2		
Company: FFI Global Report To: Scott	Verow	Attention: a	eary	ian italia	1683735		
Address: 8091 Casher Run Dr Copy To: Kurt	Gill. am	Company Name:		REGULATORY AGENCY			
suite 191		Address:		☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER			
Email To: Scoff Verwediffer Purchase Order No.: 9	510- 65144	Pace Quote Reference:		UST RCF			
386630 - Cot 73	es Enegy Group	Pace Project Manager:		Site Location	2. 1		
Requested Due Date/TAT: Project Number: 48	10-05144	Pace Profile #:		STATE:	LA		
			Requested A	analysis Filtered (Y/N)			
Section D Matrix Codes Required Client Information MATRIX / CODE Drinking Water DW Water WT 8 U	COLLECTED	Preservatives	TN I				
Product P I P Soll/Soll SL P S	MPOSITE COMPOSITE END/GRAB	, l	lessus Carp		(N)		
(A-Z, 0-9 / ,-) Air AR AR Sample IDs MUST BE UNIQUE Tissue TS O DE Other OT O E	TEMP AT C	CONTAINERS Seeved 4 1 1 1 203	sis Test 4		Residual Chlorine CAIN		
THEM #		# OF CONTA Unpreserved H ₂ SO ₄ HNO ₃ HCI NOOH Na ₂ S ₂ O ₃ Methanol	To Se		Pace Project No./ Lab I.D.		
	52113 6730				60		
3 2 1111	1 640				802		
4 . 3	0150				653		
5 5	0800				004		
6 8/4			 		005		
7	0880 ARS						
8 8	GRYO				00%		
9 0	0230				007		
10 10	0900				008		
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12 12	V O3 30	YYIIIII			011		
ADDITIONAL COMMENTS RELINQUISHED E		A Comment	BY / AFFILIATION	DATE TIME	SAMPLE CONDITIONS		
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Swilchent original							
35 / ()	SAMPLER NAME AND SIGNATURE						
SWT/Client ORIGINAL PRINT Name of SAMPLER:					· in °C · in °C · in °C · in °C · in red or		
&W 2/Cit of Orlication	SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):		Received on Ice (Y/N) Custody Seeled Cooler (Y/N) Samples Intact (Y/N)		

EPA-R5-2017-008149_0000236



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:	Section B		og til og artil etg.	Section C	Alfgress 19.	ale d	ten in e	Pa	ge:		of J	
Company: EFI 6-664	Required Project Report To:	i iniomation;		Invoice Inform Attention:	ation:		· ·		1	683	3738	
Address:	Сору То:	 	 	Company Nar	ne:		REGULATOR	Y AGENC	Tax-co-ingli			
				Address:	*				JND WAT	ER 🗂	DRINKIN	G WATER
Email To:	Purchase Order I	No.: PRSTO-	05144	Pace Quoté Reference:			UST	RCR/		Г	OTHER	
Phone: Fax:	Project Name:			Pace Project Manager:			Site Location				Jan Philip	
Requested Due Date/TAT:	Project Number:	98510	-05744	Pace Profile #:			STATE:	1 <u>41 12 1</u>				
						Requested	l Analysis Filte	red (Y/N)				
Required Client Information MI	ATRIX / CODE	(dlwo COL	LECTED	1 -	Preservatives	N. S.						
Water	AR DO	SAMPLE TYPE (G-GRAB O-COMP) TAYALE TA	COMPOSITE ENDIGRAB	TAINE!	HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanol	Analysis Test I DA H Tel-cl Caletor			Residual Chlorine (Y/N)	:. *' 	812	52/ lo/Lab I.D.
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2			0410							. :		<i>0</i> 13
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o Dupe												520
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n												
12												
ADDITIONAL COMMENTS	RE).	INQUISHED BY / AFFILIA	TION DATE	TIME	ACCEPT	ED BY / AFFILIATION	DATE	TIME	3	SAMP	LE CONDIT	ons
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Pag										*********		
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wil client	ORIGINAL	\$. "	PRINT Name of SAMPLE	R:			and the second s		Temp in °C	S N	S d dd	n (N)
o WL/CITEDI	·		SIGNATURE of SAMPLE	R:		DATE Signed (MM/DD/YY):	***		Tem	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

%				Antonio Comer	The state of the s	and the second	S2200				
Face Analytical Client Name	:_ <i></i> }	-F	I		2/04	bal	⁄ Proje	ct#	60,9	31252	_
							•				·-
Courier: Fed Ex UPS USPS Client	ı 🗀	ommer	cial	□Pa	ce Oth	ner <u> </u>	·				:
Custody Saal on Cooler/Box Present: yes	. Tv no	0	Seals	inton	. 🗀	l			Date	/Time 503	
				1.		yes (<u>V</u> ∩o		place	ed in freez	5A kits :er
Packing Material: Bubble Wrap Bubble Thermometer Used 12346ABCDE	-	No of ice;		MOth → Blu		_130,	<u>Y</u>				
Cooler Temperature 1.8°C	•	(ocess has	oegun
(Corrected, if applicable)	100	A (SOUTHE	111 221	unbie (Contain	ers:	_ yes	LA u			<i>7</i>
Temp should be above freezing to 6°C				Com	ments:		Da	ite and ini contents:	tials of ps	/3///3	ining ·
Chain of Custody Present:	Yes	□No	□n/a	1.						731/13	
Chain of Custody Filled Out:	☑ Yes	□No	□N/A	2.							
Chain of Custody Relinquished:	Ó Yes	□No	□n/a	3.							
Sampler Name & Signature on COC:	□Yes.	No	□n/a	 		, ~~~ ~~~~	•		7.		···
Short Hold Time Analysis (<72hr):	□Yes	Mo	□n/a	5.							
Rush Turn Around Time Requested:	□Yes	MNO	□n/A				· · · · · · · · · · · · · · · · · · ·				
Containers Intact:	12 Yes	□No	□n/a	 							
Sample Labels match COC:	□Yes	MNo			1/0	£'		- ^	/		
-Includes date/time/ID/Analysis			— ,,,,,	. '	<i>V O</i>	imes	on	sanp	ies		•.
All containers needing acid/base pres have been checked?	□Yes	Пыс	☑N/A	ļ	(0) -1.)	LINO	11000				
exceptions: VOA, colliform. TOC, U&G		_,,,o	LUIVA	3.	(Cirçie)	HNO3	H2SC)4 N	la O H	HCI	•
All containers needing preservation are found to be in compliance with EPA recommendation.	□Yes	□№о	TZ N/A			•	٠			•	
Headspace in VOA Vials (>6mm)	□Yes	□No	NIA	10.			-,	. 0.			
Trip Blank Present:	□Yes	□No	NA	 							
Trip Blank Custody Seals Present	□Yes	□No	ØN/A	1						•	
Project Waragar Review											
Samples Arrived within Hold Time:	Yes	□No	DNA	12.							
Sufficient Volume:	Dres	□No	□n/a	13.				·			
Correct Containers Used:	Ves	□No	□n/A	14.					•		
Client Notification/ Resolution:				Andrew Control	Carrier Constitute		Field (Data Requ	ired?	Y / N	
Person Contacted:			Date/	Time:				_		. , ,	
Comments/ Resolution:			~		· .						
	•										
											
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Project Manager Review:	/h~							Mad-	. 1.	7	
THE STATE OF THE S					·			Date:	<u>6</u> /31	43	
Fa 5 IN 0000											
Form F-IN-Q290-rev.04, 28Apr2011							á				Page :

Sample Condition Upon Receipt

Page 37 of 39

CLIENT: EFT Global

COC PAGE / of 2

Sample Container Count



Project # 6081 252

Sample Line

COC ID#

Γ	Item	DG9H	AG1U	W	GFU	AG0U	R-4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
	1				1												1.	Comments
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Container Codes

					•		
DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass		1 liter H2SO4 plastic	f	40mL H2SO4 amber vial
WGFU	4oz clear soil jar		1 liter H2SO4 amber glass	BP1U	1	1 ·	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac		40mL unpreserved amber vial
BP2N		AG2N	500mL HNO3 amber glass		500mL NaOH, Asc Acid plastic		Wipe/Swab
BP2U		AG2S	500mL H2SO4 amber glass		500mL NaOH plastic	!	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla		500mL NaOH, Zn Ac		Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla		Air Filter		40mL HCL clear vial
BP3U		BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic		40mL Na Thio. clear vial
BP3S		BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic		40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla		Air Cassettes		Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass		40mL Na Bisulfate amber vial		,
BP1U	1 liter unpreserved plastic				40mL MeOH clear vial		4oz wide jar w/hexane wipe
				2 COW1	TOTILE MOOIT Clear Viat	ZPLU	Ziploc Bag

EPA-R5-2017-008149_0000236

12 EPA-R5-2017-008149_0000236 age 39 of 39

Sample	Container	Coun

coc PAGE 2 of 2 coc ID# 1683736

CLIENT:

Project #_

Sample Line		•														
Item	DG9H	AG1U	WGFU	AG0U	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H			Comments
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	Container Codes				•		
DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DĞ9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	Ī	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	С	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial		4oz wide jar w/hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	****	40mL MeOH clear vial		Ziploc Bag



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

June 20, 2013

Mr. Scott Verow EFI Global, Inc. 8091 Center Run Drive Suite 191 Indianapolis, IN 46250

RE: Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Dear Mr. Verow:

Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Donna Spyker

Donna S. Softer

donna.spyker@pacelabs.com Project Manager

Enclosures





Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

CERTIFICATIONS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Kentucky Certification #: 0042

Indiana Certification IDs

7726 Moller Road, Indianapolis, IN 46268 Illinois Certification #: 200074 Indiana Certification #: C-49-06 Kansas Certification #: E-10247

Louisiana/NELAC Certification #: 04076 Ohio VAP Certification #: 101170-0 Pennsylvania Certification #: 68-04991 West Virginia Certification #: 330

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

SAMPLE SUMMARY

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5081892001	19	Solid	06/12/13 10:40	06/12/13 13:55
5081892002	20	Solid	06/12/13 10:45	06/12/13 13:55
5081892003	21	Solid	06/12/13 10:50	06/12/13 13:55
5081892004	22	Solid	06/12/13 10:55	06/12/13 13:55
5081892005	23	Solid	06/12/13 11:00	06/12/13 13:55
5081892006	24	Solid	06/12/13 11:10	06/12/13 13:55
5081892007	25	Solid	06/12/13 11:15	06/12/13 13:55
5081892008	DUP	Solid	06/12/13 08:00	06/12/13 13:55

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5081892001		EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081892002	20	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081892003	21	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081892004	22	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081892005	23	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081892006	24	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081892007	25	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1
5081892008	DUP	EPA 8270 by SIM	CEM	20
		ASTM D2974-87	ZM	1
		SM 4500-CI-E	ILP	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: 19 Lab ID: 5081892001 Collected: 06/12/13 10:40 Received: 06/12/13 13:55 Matrix: Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method	: EPA 8270	by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	104 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	83-32-9	
Acenaphthylene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	208-96-8	
Anthracene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	120-12-7	
Benzo(a)anthracene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	56-55-3	
Benzo(a)pyrene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	207-08-9	
Chrysene	148 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	53-70-3	
luoranthene	65.4 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	206-44-0	
luorene	880 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	193-39-5	
-Methylnaphthalene	491 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	90-12-0	N2
2-Methylnaphthalene	147 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	91-57-6	
Naphthalene	71.2 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	91-20-3	1d
Phenanthrene	1130 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	85-01-8	
Pyrene	121 ug/kg		28.7	5	06/19/13 09:40	06/19/13 13:22	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	66 %.		38-110	5	06/19/13 09:40	06/19/13 13:22	321-60-8	
o-Terphenyl-d14 (S)	78 %.		32-111	5	06/19/13 09:40	06/19/13 13:22	1718-51-0	
Percent Moisture	Analytical Method	: ASTM D29	974-87					
Percent Moisture	13.4 %		0.10	1		06/17/13 15:48		
500 Chloride in Soil	Analytical Method	: SM 4500-0	CI-E Preparation I	Method	I: SM 4500-CI-E			
Chloride	ND mg/kg	1	115	1	06/15/13 13:33	06/17/13 13:15	16887-00-6	

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: 20 Lab ID: 5081892002 Collected: 06/12/13 10:45 Received: 06/12/13 13:55 Matrix: Solid

Results reported on a "dry-weig	ht" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV PAH by SIM	Analytical Method	d: EPA 8270	by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	131 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	83-32-9	
Acenaphthylene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	208-96-8	
Anthracene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	120-12-7	
Benzo(a)anthracene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	56-55-3	
Benzo(a)pyrene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	50-32-8	
Benzo(b)fluoranthene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	191-24-2	
Benzo(k)fluoranthene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	207-08-9	
Chrysene	176 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	53-70-3	
Fluoranthene	77.0 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	206-44-0	
luorene	1180 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	193-39-5	
I-Methylnaphthalene	786 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	90-12-0	N2
2-Methylnaphthalene	290 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	91-57-6	
Naphthalene	112 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	91-20-3	1d
Phenanthrene	1770 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	85-01-8	
Pyrene	143 ug/kg	3	29.4	5	06/19/13 09:40	06/19/13 13:40	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	59 %.		38-110	5	06/19/13 09:40			
o-Terphenyl-d14 (S)	70 %.		32-111	5	06/19/13 09:40	06/19/13 13:40	1718-51-0	
Percent Moisture	Analytical Method	d: ASTM D29	74-87					
Percent Moisture	15.8 %		0.10	1		06/17/13 15:48		
1500 Chloride in Soil	Analytical Method	d: SM 4500-0	CI-E Preparation I	Method	I: SM 4500-CI-E			
Chloride	119 mg/k	g	119	1	06/15/13 13:33	06/17/13 13:17	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: 21 Lab ID: 5081892003 Collected: 06/12/13 10:50 Received: 06/12/13 13:55 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
270 MSSV PAH by SIM	Analytical Meth	od: EPA 827	0 by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	80.2 ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	83-32-9	
Acenaphthylene	ND ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	208-96-8	
Anthracene	ND ug/	′kg	29.0	5	06/19/13 09:40	06/19/13 13:57	120-12-7	
Benzo(a)anthracene	ND ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	56-55-3	
Benzo(a)pyrene	ND ug/	′kg	29.0	5	06/19/13 09:40	06/19/13 13:57	50-32-8	
Benzo(b)fluoranthene	ND ug/	′kg	29.0	5	06/19/13 09:40	06/19/13 13:57	205-99-2	
Benzo(g,h,i)perylene	ND ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	191-24-2	
Benzo(k)fluoranthene	ND ug/	′kg	29.0	5	06/19/13 09:40	06/19/13 13:57	207-08-9	
Chrysene	149 ug/	′kg	29.0	5	06/19/13 09:40	06/19/13 13:57	218-01-9	
Dibenz(a,h)anthracene	ND ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	53-70-3	
luoranthene	65.8 ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	206-44-0	
luorene	756 ug/	⁄kg	29.0	5	06/19/13 09:40	06/19/13 13:57	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/	′kg	29.0	5	06/19/13 09:40	06/19/13 13:57	193-39-5	
-Methylnaphthalene	279 ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	90-12-0	N2
-Methylnaphthalene	ND ug/	⁄kg	29.0	5	06/19/13 09:40	06/19/13 13:57	91-57-6	
laphthalene	139 ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	91-20-3	1d
Phenanthrene	960 ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	85-01-8	
Pyrene	119 ug/	/kg	29.0	5	06/19/13 09:40	06/19/13 13:57	129-00-0	
Surrogates								
!-Fluorobiphenyl (S)	61 %.		38-110	5	06/19/13 09:40	06/19/13 13:57	321-60-8	
-Terphenyl-d14 (S)	74 %.		32-111	5	06/19/13 09:40	06/19/13 13:57	1718-51-0	
ercent Moisture	Analytical Meth	od: ASTM D	2974-87					
Percent Moisture	14.5 %		0.10	1		06/17/13 15:48		
500 Chloride in Soil	Analytical Meth	od: SM 4500	-CI-E Preparation i	Method	I: SM 4500-CI-E			
Chloride	184 mg	ı/kg	117	1	06/15/13 13:33	06/17/13 13:18	16887-00-6	

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: 22 Lab ID: 5081892004 Collected: 06/12/13 10:55 Received: 06/12/13 13:55 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV PAH by SIM	Analytical Method	I: EPA 8270 b	y SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	122 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:15	83-32-9	
Acenaphthylene	ND ug/kg	1	29.2	5	06/19/13 09:40	06/19/13 14:15	208-96-8	
Anthracene	ND ug/kg	1	29.2	5	06/19/13 09:40	06/19/13 14:15	120-12-7	
Benzo(a)anthracene	ND ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	56-55-3	
Benzo(a)pyrene	ND ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	50-32-8	
Benzo(b)fluoranthene	ND ug/kg	1	29.2	5	06/19/13 09:40	06/19/13 14:15	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	191-24-2	
Benzo(k)fluoranthene	ND ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	207-08-9	
Chrysene	162 ug/kg	I	29.2	5	06/19/13 09:40	06/19/13 14:15	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	53-70-3	
Fluoranthene	72.3 ug/kg	1	29.2	5	06/19/13 09:40	06/19/13 14:15	206-44-0	
luorene	1130 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:15	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	I	29.2	5	06/19/13 09:40	06/19/13 14:15	193-39-5	
I-Methylnaphthalene	807 ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	90-12-0	N2
2-Methylnaphthalene	554 ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	91-57-6	
Naphthalene	137 ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	91-20-3	1d
Phenanthrene	1690 ug/kg	I	29.2	5	06/19/13 09:40	06/19/13 14:15	85-01-8	
Pyrene	129 ug/kg	l	29.2	5	06/19/13 09:40	06/19/13 14:15	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	69 %.		38-110	5	06/19/13 09:40	06/19/13 14:15	321-60-8	
o-Terphenyl-d14 (S)	78 %.		32-111	5	06/19/13 09:40	06/19/13 14:15	1718-51-0	
Percent Moisture	Analytical Method	I: ASTM D297	74-87					
Percent Moisture	14.4 %		0.10	1		06/17/13 15:48		
1500 Chloride in Soil	Analytical Method	I: SM 4500-CI	I-E Preparation I	Method	I: SM 4500-CI-E			
Chloride	ND mg/kg	g	117	1	06/15/13 13:33	06/17/13 13:18	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: 23 Lab ID: 5081892005 Collected: 06/12/13 11:00 Received: 06/12/13 13:55 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Meth	nod: EPA 827	0 by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	71.2 ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	83-32-9	
Acenaphthylene	ND ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	208-96-8	
Anthracene	ND ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	120-12-7	
Benzo(a)anthracene	ND ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	56-55-3	
Benzo(a)pyrene	ND ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	50-32-8	
Benzo(b)fluoranthene	ND ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	205-99-2	
Benzo(g,h,i)perylene	ND ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	191-24-2	
Benzo(k)fluoranthene	ND ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	207-08-9	
Chrysene	101 ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	218-01-9	
Dibenz(a,h)anthracene	ND ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	53-70-3	
luoranthene	50.3 ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	206-44-0	
luorene	673 ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	193-39-5	
-Methylnaphthalene	505 ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	90-12-0	N2
2-Methylnaphthalene	642 ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	91-57-6	
Naphthalene	134 ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	91-20-3	1d
Phenanthrene	1040 ug	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	85-01-8	
Pyrene	86.1 ug.	/kg	28.6	5	06/19/13 09:40	06/19/13 14:33	129-00-0	
Surrogates								
?-Fluorobiphenyl (S)	72 %.		38-110	5		06/19/13 14:33		
o-Terphenyl-d14 (S)	80 %.		32-111	5	06/19/13 09:40	06/19/13 14:33	1718-51-0	
ercent Moisture	Analytical Meth	nod: ASTM D	2974-87					
Percent Moisture	12.9 %		0.10	1		06/17/13 15:49		
500 Chloride in Soil	Analytical Meth	nod: SM 4500	-CI-E Preparation i	Method	I: SM 4500-CI-E			
Chloride	ND mg	g/kg	115	1	06/15/13 13:33	06/17/13 13:19	16887-00-6	

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: 24 Lab ID: 5081892006 Collected: 06/12/13 11:10 Received: 06/12/13 13:55 Matrix: Solid

Results reported on a "dry-weig	ght" basis							
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method	: EPA 8270 by	SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	46.8 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	83-32-9	
Acenaphthylene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	208-96-8	
Anthracene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	120-12-7	
Benzo(a)anthracene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	56-55-3	
Benzo(a)pyrene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	50-32-8	
Benzo(b)fluoranthene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	191-24-2	
Benzo(k)fluoranthene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	207-08-9	
Chrysene	76.3 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	53-70-3	
luoranthene	44.8 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	206-44-0	
luorene	420 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	193-39-5	
l-Methylnaphthalene	241 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	90-12-0	N2
2-Methylnaphthalene	82.8 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	91-57-6	
Naphthalene	57.6 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	91-20-3	1d
Phenanthrene	652 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	85-01-8	
Pyrene	65.5 ug/kg		29.2	5	06/19/13 09:40	06/19/13 14:51	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67 %.		38-110	5	06/19/13 09:40	06/19/13 14:51	321-60-8	
o-Terphenyl-d14 (S)	75 %.		32-111	5	06/19/13 09:40	06/19/13 14:51	1718-51-0	
Percent Moisture	Analytical Method	: ASTM D2974	1-87					
Percent Moisture	15.5 %		0.10	1		06/17/13 15:49		
1500 Chloride in Soil	Analytical Method	: SM 4500-CI-	E Preparation I	Method	: SM 4500-CI-E			
Chloride	ND mg/kg	3	118	1	06/15/13 13:33	06/17/13 13:20	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: 25 Lab ID: 5081892007 Collected: 06/12/13 11:15 Received: 06/12/13 13:55 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
3270 MSSV PAH by SIM	Analytical Method	I: EPA 8270 by	/ SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	53.3 ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	83-32-9	
Acenaphthylene	ND ug/kg	1	28.3	5	06/19/13 09:40	06/19/13 15:09	208-96-8	
Anthracene	ND ug/kg		28.3	5	06/19/13 09:40	06/19/13 15:09	120-12-7	
Benzo(a)anthracene	ND ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	56-55-3	
Benzo(a)pyrene	ND ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	50-32-8	
Benzo(b)fluoranthene	ND ug/kg	1	28.3	5	06/19/13 09:40	06/19/13 15:09	205-99-2	
Benzo(g,h,i)perylene	ND ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	191-24-2	
Benzo(k)fluoranthene	ND ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	207-08-9	
Chrysene	76.1 ug/kg		28.3	5	06/19/13 09:40	06/19/13 15:09	218-01-9	
Dibenz(a,h)anthracene	ND ug/kg	I	28.3	5	06/19/13 09:40	06/19/13 15:09	53-70-3	
luoranthene	36.1 ug/kg	1	28.3	5	06/19/13 09:40	06/19/13 15:09	206-44-0	
Fluorene	486 ug/kg	1	28.3	5	06/19/13 09:40	06/19/13 15:09	86-73-7	
ndeno(1,2,3-cd)pyrene	ND ug/kg	1	28.3	5	06/19/13 09:40	06/19/13 15:09	193-39-5	
-Methylnaphthalene	323 ug/kg		28.3	5	06/19/13 09:40	06/19/13 15:09	90-12-0	N2
2-Methylnaphthalene	86.5 ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	91-57-6	
Naphthalene	56.1 ug/kg	1	28.3	5	06/19/13 09:40	06/19/13 15:09	91-20-3	1d
Phenanthrene	758 ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	85-01-8	
Pyrene	62.0 ug/kg	l	28.3	5	06/19/13 09:40	06/19/13 15:09	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	73 %.		38-110	5	06/19/13 09:40	06/19/13 15:09		
o-Terphenyl-d14 (S)	80 %.		32-111	5	06/19/13 09:40	06/19/13 15:09	1718-51-0	
ercent Moisture	Analytical Method	I: ASTM D297	4-87					
Percent Moisture	12.4 %		0.10	1		06/17/13 15:49		
500 Chloride in Soil	Analytical Method	I: SM 4500-CI-	E Preparation I	Method	: SM 4500-CI-E			
Chloride	ND mg/kg	q	114	1	06/15/13 13:33	06/17/13 13:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

ANALYTICAL RESULTS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Sample: DUP Lab ID: 5081892008 Collected: 06/12/13 08:00 Received: 06/12/13 13:55 Matrix: Solid

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV PAH by SIM	Analytical Meth	nod: EPA 827	0 by SIM Preparati	on Met	hod: EPA 3546			
Acenaphthene	38.9 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	83-32-9	
Acenaphthylene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	208-96-8	
Anthracene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	120-12-7	
Benzo(a)anthracene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	56-55-3	
Benzo(a)pyrene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	50-32-8	
Benzo(b)fluoranthene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	205-99-2	
Benzo(g,h,i)perylene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	191-24-2	
Benzo(k)fluoranthene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	207-08-9	
Chrysene	60.3 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	218-01-9	
Dibenz(a,h)anthracene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	53-70-3	
Fluoranthene	33.6 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	206-44-0	
Fluorene	346 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	86-73-7	
Indeno(1,2,3-cd)pyrene	ND ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	193-39-5	
1-Methylnaphthalene	189 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	90-12-0	N2
2-Methylnaphthalene	53.9 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	91-57-6	
Naphthalene	45.7 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	91-20-3	1d
Phenanthrene	543 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	85-01-8	
Pyrene	51.1 ug/	/kg	28.6	5	06/19/13 09:40	06/19/13 15:27	129-00-0	
Surrogates								
2-Fluorobiphenyl (S)	67 %.		38-110	5		06/19/13 15:27		
o-Terphenyl-d14 (S)	76 %.		32-111	5	06/19/13 09:40	06/19/13 15:27	1718-51-0	
Percent Moisture	Analytical Meth	nod: ASTM D	2974-87					
Percent Moisture	13.5 %		0.10	1		06/17/13 15:49		
500 Chloride in Soil	Analytical Meth	nod: SM 4500	-CI-E Preparation I	Method	I: SM 4500-CI-E			
Chloride	ND mg	g/kg	115	1	06/15/13 13:33	06/17/13 13:23	16887-00-6	





Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

QC Batch: OEXT/33082 Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546 Analysis Description: 8270 MSSV PAH by SIM

Associated Lab Samples: 5081892001, 5081892002, 5081892003, 5081892004, 5081892005, 5081892006, 5081892007, 5081892008

METHOD BLANK: 934172 Matrix: Solid

Associated Lab Samples: 5081892001, 5081892002, 5081892003, 5081892004, 5081892005, 5081892006, 5081892007, 5081892008

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	ND ND	5.0	06/19/13 12:46	N2
2-Methylnaphthalene	ug/kg	ND	5.0	06/19/13 12:46	
Acenaphthene	ug/kg	ND	5.0	06/19/13 12:46	
Acenaphthylene	ug/kg	ND	5.0	06/19/13 12:46	
Anthracene	ug/kg	ND	5.0	06/19/13 12:46	
Benzo(a)anthracene	ug/kg	ND	5.0	06/19/13 12:46	
Benzo(a)pyrene	ug/kg	ND	5.0	06/19/13 12:46	
Benzo(b)fluoranthene	ug/kg	ND	5.0	06/19/13 12:46	
Benzo(g,h,i)perylene	ug/kg	ND	5.0	06/19/13 12:46	
Benzo(k)fluoranthene	ug/kg	ND	5.0	06/19/13 12:46	
Chrysene	ug/kg	ND	5.0	06/19/13 12:46	
Dibenz(a,h)anthracene	ug/kg	ND	5.0	06/19/13 12:46	
Fluoranthene	ug/kg	ND	5.0	06/19/13 12:46	
Fluorene	ug/kg	ND	5.0	06/19/13 12:46	
Indeno(1,2,3-cd)pyrene	ug/kg	ND	5.0	06/19/13 12:46	
Naphthalene	ug/kg	ND	5.0	06/19/13 12:46	
Phenanthrene	ug/kg	ND	5.0	06/19/13 12:46	
Pyrene	ug/kg	ND	5.0	06/19/13 12:46	
2-Fluorobiphenyl (S)	%.	76	38-110	06/19/13 12:46	
p-Terphenyl-d14 (S)	%.	87	32-111	06/19/13 12:46	

-				
1	ARORATORY	CONTROL	SAMPLE:	934173

Date: 06/20/2013 11:29 AM

Spike	LCS	LCS	% Rec	
Conc.	Result	% Rec	Limits	Qualifiers
333	237	71	40-102	N2
333	240	72	39-104	
333	245	73	43-108	
333	251	75	44-110	
333	262	79	44-112	
333	266	80	43-124	
333	277	83	44-124	
333	284	85	44-123	
333	274	82	44-118	
333	273	82	42-122	
333	274	82	44-124	
333	281	84	44-119	
333	276	83	45-119	
333	261	78	44-113	
333	277	83	44-119	
333	229	69	42-103	
333	259	78	44-113	
	333 333 333 333 333 333 333 333 333 33	333 237 333 240 333 245 333 251 333 262 333 266 333 277 333 284 333 274 333 274 333 281 333 276 333 261 333 277 333 227 333 277 333 229	333 237 71 333 240 72 333 245 73 333 251 75 333 262 79 333 266 80 333 277 83 333 284 85 333 274 82 333 274 82 333 274 82 333 281 84 333 276 83 333 261 78 333 227 83 333 227 83 333 229 69	333 237 71 40-102 333 240 72 39-104 333 245 73 43-108 333 251 75 44-110 333 262 79 44-112 333 266 80 43-124 333 277 83 44-124 333 284 85 44-123 333 274 82 44-118 333 273 82 42-122 333 274 82 44-124 333 281 84 44-119 333 276 83 45-119 333 261 78 44-113 333 277 83 44-119 333 261 78 44-113 333 277 83 44-119 333 260 78 44-119 333 261 78 44-119 333 29

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALITY CONTROL DATA

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

LABORATORY CONTROL SAMPLE: 934173

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	276	83	45-123	
2-Fluorobiphenyl (S)	%.			70	38-110	
p-Terphenyl-d14 (S)	%.			79	32-111	



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALITY CONTROL DATA

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

QC Batch: PMST/8384 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 5081892001, 5081892002, 5081892003, 5081892004, 5081892005, 5081892006, 5081892007, 5081892008

SAMPLE DUPLICATE: 933052

 Parameter
 Units
 5081867001 Result
 Dup Result
 Max RPD
 RPD
 Qualifiers

 Percent Moisture
 %
 19.2
 19.3
 0
 5

SAMPLE DUPLICATE: 933053

Date: 06/20/2013 11:29 AM

5081870005 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers Percent Moisture % 18.1 18.8 3 5

REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALITY CONTROL DATA

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

QC Batch: WETA/10058 Analysis Method: SM 4500-CI-E
QC Batch Method: SM 4500-CI-E Analysis Description: 4500 Chloride

Associated Lab Samples: 5081892001, 5081892002, 5081892003, 5081892004, 5081892005, 5081892006, 5081892007, 5081892008

METHOD BLANK: 932810 Matrix: Solid

Associated Lab Samples: 5081892001, 5081892002, 5081892003, 5081892004, 5081892005, 5081892006, 5081892007, 5081892008

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Chloride
 mg/kg
 ND
 100
 06/17/13 13:13

LABORATORY CONTROL SAMPLE: 932811

LCS LCS % Rec Spike % Rec Qualifiers Parameter Units Conc. Result Limits Chloride mg/kg 200 187 94 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 932812 932813

MS MSD 5081892001 Spike Spike MS MSD MS MSD % Rec Max Result RPD RPD Parameter Conc. Conc. Result Result % Rec % Rec Limits Units Qual Chloride mg/kg ND 231 231 278 278 98 90-110 0 20



Pace Analytical Services, Inc. 7726 Moller Road Indianapolis, IN 46268 (317)875-5894

QUALIFIERS

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 06/20/2013 11:29 AM

1d Due to the extract's physical characteristics, the analysis was performed at dilution. CEM 06/19/13

N2 The lab does not hold TNI accreditation for this parameter.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Citizens Energy 98510-05144

Pace Project No.: 5081892

Date: 06/20/2013 11:29 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
5081892001	19	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892002	20	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892003	21	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892004	22	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892005	23	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892006	24	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892007	25	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892008	DUP	EPA 3546	OEXT/33082	EPA 8270 by SIM	MSSV/12791
5081892001	19	ASTM D2974-87	PMST/8384		
5081892002	20	ASTM D2974-87	PMST/8384		
5081892003	21	ASTM D2974-87	PMST/8384		
5081892004	22	ASTM D2974-87	PMST/8384		
5081892005	23	ASTM D2974-87	PMST/8384		
5081892006	24	ASTM D2974-87	PMST/8384		
5081892007	25	ASTM D2974-87	PMST/8384		
5081892008	DUP	ASTM D2974-87	PMST/8384		
5081892001	19	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068
5081892002	20	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068
5081892003	21	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068
5081892004	22	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068
5081892005	23	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068
5081892006	24	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068
5081892007	25	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068
5081892008	DUP	SM 4500-CI-E	WETA/10058	SM 4500-CI-E	WETA/10068

EPA-R5-2017-008149_0000236



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Section Required Client Information: Require	n B ed Project Information:		Section C	Page:	of
Company: Report T		دها	Invoice Information: Attention: Lynn Yeary	1	1661587
Address: Soli Cedar L. A. Copy To		1 88 6/12/13	Company Name:	REGULATORY AGENCY	
Ste 191			Address:	☐ NPDES ☐ GROUND WA	TER TO DRINKING WATER
Email To: 5 Cott - reon Cetagos Purchase	e Order No.: 78510-	08144	Pace Quote Reference:	T UST T RCRA	OTHER
Phone: Fax: Project N	Vame: Catitens	Enfrey	Pace Project Manager:	Site Location	
Requested Due Date/TAT: Project N	Number: 98720-0	5144	Pace Profile #:	STATE: I	
				Analysis Filtered (Y/N)	
Section D Matrix Codes Required Client Information MATRIX / CODE	COLLEGE (c)		Preservatives		
Drinking Water DW Water Water Water Waste Water Product P Soil/Solid SL Oil OL Wipe WP Water WW Water Product P Soil/Solid SL Oil OL Wipe WP Sample IDs MUST BE UNIQUE Tissue TS Other OT	MATRIX CODE (see valid coddes to tert) SAMPLE TYPE (G=GRAB C=COMP) TABLE SAMPLE TYPE (G=GRAB C=COMP) TABLE TABL	COMPOSITE END/GRAB AT COLLECTION AT STATE TEMP AT COLLECTION	# OF CONTAINERS Unpreserved H ₂ SO ₄ HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanol Other Teta Chent	Residual Chlorine (Y/N)	608/892 Pace Project No./ Lab I.D.
1 19		612-8 1010			60)
2 20		1045			002
3 91		1050			053
4 23		1055			004
5 <u>a</u> ζ		1100			005
6 24		liso			aob
7 96		1115			007
8 Dre	VV	4			008
9					
10					
11					
ADDITIONAL COMMENTS	RELINGUISHED BY / AFFILIATIO	IN DATE	TIME ACCEPTED BY / AFFILIATION	DATE TIME	SAMPLE CONDITIONS
	Masile				
4	Mul	6-12-13	1385 COPMOULTAGE	6/12/13/135 4:0	4 19 9
To '					·
® FMI I dal	SAMPLER	NAME AND SIGNATUR			g dd g
July well		PRINT Name of SAMPLER:		Temp in °C	(Y/N) stody //N) //N)
origina origina	\ [SIGNATURE OF SAMPLER:	DATE Signed (MM/DD/YY):	6-13-13	Received on Ice (Y/N) Custody Sealed Ccoler (Y/N) Samples Intact (Y/N)

Pace Analytical Client Name: Project # 5081892 Courier: Fed Ex UPS USPS Chent Commercial Pace Other Tracking #: Date/Time 5035A kits Seals intact. ves M no placed in freezer Packing Material: Bubble Wrap Bubble Bags None COher Thermometer Used Type of log-Samples on ice, cooling process has begun Blue None Cooler Temperature Ice Visible in Sample Containers: yes yes (Corrected, if applicable) Date and Initials of p Temp should be above freezing to 6°C Comments: contents: (LY) Chain of Custody Present: DNO □N/A Chain of Custody Filled Out: 1 Yes □No □N/A 2. Chain of Custody Relinquished: □No □N/A Sampler Name & Signature on COC: □No DNA 4 Short Hold Time Analysis (<72hr): □Yes (ENO DN/A Rush Turn Around Time Requested: ☐Yes $\Box y_{0}$ □N/A 6. Tyes Containers Intact: □No □N/A Sample Labels match COC: □N/A 8. □No -Includes date/time/ID/Analysis All containers needing acid/base pres have been checked? □Yes ENIA □No 9. (Circle) HNO3 H2SO4 NaOH HCI exceptions: VDA, caliform, TOC, G&G All containers needing preservation are found to be in □Yes □NO QNA compliance with EPA recommendation. Headspace in VOA Vials (>6mm) □Yes □No ANIA Trip Blank Present: ☐ Yes DNo 200/A 11. Trip Blank Custody Seals Present □Yes DN/A □No Project Manader Review Samples Arrived within Hold Time: □No □N/A 12. Sufficient Volume: **Ø**Yes DNo □n/a 13. Correct Containers Used: ΔYes □No □N/A 14. Client Notification/ Resolution: Field Data Required? Person Contacted: Date/Time: Comments/ Resolution: Project Manager Review: Date:

Form F-IN-Q290-rev.04, 28Apr2011

Sample Condition Upon Receipt

Sample Container Count

CLIENT: ET - (YOU)	CLIENT:	工	GI	lobal
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Pace Analytical

COC PAGE _ LOTO IS 877

Project # <u>6081892</u>

Sample Line

Item	DG9H	AG1U	W	GFU	AG0U	R-4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H		Comments
11																
. 2									,							
3		24.7 														7 - 1-2 (m) - 1-
4													-			
5																
66						-	÷									
-7										-			,			
88			V	/								audinterimentare (***)				
9																
10		-														^
11								., .		- · ·			-			
12	ľ						T. C.									and the state of t

Container Codes

DG9H	40mL HCL amber voa vial	AG0U	100mL unpreserved amber glass	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1liter unpreserved amber glass	AG1H	1 liter HCL amber glass	BP1S	1 liter H2SO4 plastic	DG9S	40mL H2SO4 amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H2SO4 amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO3 amber glass	BP2A	500mL NaOH, Asc Acid plastic	1.	Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H2SO4 amber glass	BP2O	500mL NaOH plastic	JGFU	4oz unpreserved amber wide
BP2S	500mL H2SO4 plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL unpreserved amber gla	AF	Air Filter	· VG9H	40mL HCL clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCL clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio. clear vial
BP3S	250mL H2SO4 plastic	BG1S	1 liter H2SO4 clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H2SO4 glass amber	BG1T	1 liter Na Thiosulfate clear gla	С	Air Cassettes	VSG	Headspace septa vial & HCL
AG1S	1 liter H2SO4 amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar w/hexane wipe
BP1U	1U 1 liter unpreserved plastic		1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial		Ziploc Bag

EPA-R5-2017-008149_0000236

Attachment 1. Material Safety Data Sheet for Crude Oil



CRUDE OIL

Material Safety Data Sheet

<u>SECTION I</u> <u>PRODUCT IDENTIFICATION</u>

Manufacturer's Name: Countrymark Refining and Logistics, LLC

Address: 1200 Refinery Road

Mt. Vernon, Indiana 47620

Emergency Telephone Number: 800-424-9300 (CHEMTREC)

Trade Names: Petroleum; Crude Oil; Mineral Oil; Rock Oil; Coal Oil; Seneca

Oil; Earth Oil; Lima Oil

Chemical Name: Petroleum, Crude Oil

Chemical Family: Hydrocarbon CAS Registry Number: 8002-05-9

SECTION II HAZARDOUS INGREDIENTS

Petroleum (Crude Oil) consists of a mixture of hydrocarbons from methane and up - chiefly of the paraffins, cycloparaffins, or of cyclic aromatic hydrocarbons, with small amounts of benzene hydrocarbons, sulfur, nitrogen and oxygenated compounds. The terms paraffin base crude, naphthene or asphalt base crude, and aromatic base crude are used to indicate the most prevalent constituents of crudes from various localities.

SARA TITLE III SECTION 313

HAZARD AND TOXIC MATERIALS NOTIFICATION (This may not be a complete list of components.)

Hazardous Component	CAS Number	Volume Range
Toluene (Benzene, methyl)	108-88-3	0 to 1 %
Xylenes (Dimethyl Benzene)	1330-20-7	0 to 1 %
Benzene	71-43-2	0 to 1 %
Ethylbenzene	100-41-4	0 to 1 %
Cyclohexane (Benzene, hexahydro)	110-82-7	0 to 1 %
Hydrogen Sulfide (H ₂ S)	7783-06-4	0 to 10 PPM

CERCLA INFORMATION

Under EPA-CWA, this product is considered an oil under Section 311. Spills into or leading to surface waters that cause a sheen must be reported to the National Response Center, 800-424-8802

RCRA INFORMATION

Under EPA-RCRA (40 CFR 261.21), if this product becomes a waste material, it would be an Ignitable Hazardous Waste., Hazardous Waste Number D001. Refer to the latest EPA or State Regulations regarding proper disposal.

Crude Oil Material Safety Data Sheet Page 2 of 4

SECTION III PHYSICAL DATA

Boiling Point (°F) <32 to 760+ Specific Gravity (H₂0 = 1) at 60° F 0.80 to 0.90

Vapor Pressure (mm. Hg) @ 60° F < 500

Percent Volatile by Volume (%) Varies with different Crudes

Solubility in Water Insoluble

Viscosity <50 SUS @ 100° F

Appearance and Odor:

Petroleum (Crude Oil) is a dark brown, greenish-brown, greenish fluorescent, or black-colored oily liquid depending upon its origin. It has a peculiar distinct heavy petroleum odor also varying with its place of origin and composition. Crude Oil may also have an odor of "rotten eggs" caused by hydrogen sulfide contamination.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (TCC) < 80° F

(The Flash Point is dependent upon the individual Crude Oil.)

Classification: Flammable Liquid UN 1267 Flammable Limits: LEL N/A UEL N/A

Extinguishing Media:

Small Fires: Dry Chemical, Carbon Dioxide, water spray, or foam.

Large Fires: Water spray, fog, or foam

Hazardous Decomposition Products:

 $\underline{\text{WARNING}}$: Hydrogen Sulfide (H₂S) and other hazardous vapors may evolve and collect in the headspace of storage tanks or other enclosed vessels. Hydrogen sulfide is an extremely flammable and highly toxic gas. Incomplete combustion may form toxic materials: Carbon Dioxide and Carbon Monoxide, plus various unidentified organic hydrocarbons may be formed.

Special Fire Fighting Procedures:

Cool containers with water spray to prevent re-ignition.

Unusual Fire and Explosion Hazards:

Avoid heat, open flames, and oxidizing agents such as Chlorine, Permanganates, and Dichromates.

SECTION V HEALTH HAZARD

Threshold Limit Value:

No applicable information was found.

Effects of Overexposure:

None expected under normal conditions of use.

Emergency and First Aid Procedures:

IF IN EYES - Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

IF ON SKIN - Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before wearing.

IF INHALED - Remove individual to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm, quiet, and get medical attention

IF SWALLOWED - Do not induce vomiting. Keep person warm, quiet and get medical attention.

Crude Oil Material Safety Data Sheet Page 3 of 4

SECTION VI

REACTIVITY DATA

Stable X Unstable
Incompatibility (Materials to avoid): Avoid contact with strong oxidizing agents like Chlorine,
Permanganates, and Dichromates.
Hazardous Decomposition Products:
May form toxic materials of Carbon Dioxide, Carbon Monoxide, various hydrocarbons, etc. as combustion byproducts.
Hazardous Polymerization: May Occur Will Not Occur _X_

SECTION VII

SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released:

Small Spill: Eliminate all ignition sources (smoking, flares, flames, including pilot lights, electrical sparks, and etc.). Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and place in non-leaking container for proper disposal.

Large Spill: Eliminate all ignition sources (smoking, flares, flames, including pilot lights, electrical sparks, and etc.). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank or truck. Remaining liquid may be taken up on sand, clay, earth, floor absorbent or other absorbent material and shoveled into non-leaking containers for proper disposal. Prevent run-off to sewers, streams or other bodies of water. If run-off occurs, notify proper authorities as required, that a spill has occurred.

Waste Disposal Method:

Small Spill: Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

Large Spill: Reclaim as much as possible for reprocessing or salvage. De stroy by liquid incineration. Contaminated absorbent may be deposited in a landfill in accordance with local, state and federal regulations.

SECTION VIII

SPECIAL PROTECTION INFORMATION

Respiratory Protection:

Not needed for normal exposure. A NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. Firefighters require SCBA Positive Pressure Breathing Apparatus when involved in petroleum fires.

Ventilation:

Ventilation is not required for normal conditions of use. If ventilation is needed, explosion-proof motors and fans are required to provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(S).

Personal Protective Equipment and Apparel:

Gloves: Wear petroleum resistant gloves such as: Neoprene, Nitrile, rubber gloves, etc.

Eye Protection: Safety goggles or face shield for protection from splashing in eyes.

Other Protective Equipment: Wear impervious protective clothing and boots appropriate for work situations to prevent repeated or prolonged skin contact. Launder contaminated clothing before wearing.

SECTION IX

SPECIAL PRECAUTIONS

Precautions to be taken when handling and storing:

Keep all containers in upright position with storage in cool, dry, well ventilated area away from heat, ignition, and strong oxidizers. Do not allow smoking in areas of use or dispensing. Motors, fans, switches, etc. in area of use or dispensing should be explosion proof. Ground containers when filling. Prevent all static and electric sparks.

Other Precautions:

Have written confined space and tank entry procedures. Never allow tank entry without checking OXYGEN AND VAPOR levels.

<u>WARNING</u>: Hydrogen Sulfide (H_2S) and other hazardous vapors may evolve and collect in the headspace of storage tanks or other enclosed vessels. Hydrogen sulfide is an extremely flammable and highly toxic gas. Use safety harness and safety line on person entering a tank. Stand-by person required with protective equipment available.

SECTION X

TOXICOLOGICAL INFORMATION

No applicable information was found.

SECTION XI DOT LABELING INFORMATION

Proper Shipping Name: Petroleum Crude Oil

Hazardous Classification: Flammable Liquid, 3, UN 1267, PG I

(DOT ERG No. 27)

Identification Number: UN 1267

Label(s) Required: Flammable Liquid

DISCLAIMER OF LIABILITY

The information in this MSDS was obtained from sources which we believe are reliable; however, the information if provided without any warranty, expressed or implied, regarding its correctness.

The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used only for this product. If this product is used as a component in another product or mixed with another product, this MSDS information may not be applicable.

Date of Preparation or Last Change: December 2012

Attachment 2. Copies of Landfill Receipts



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is \underline{NOT} asbestos waste, complete Sections I, II and III

I. GENERATOR (Genera	ator completes la-	r)					
a. Generator's US EPA ID Number	ator completes id i	o, Manifest Docur	nent Number		c. Page	1 of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424	e. Generator's Mailing Address: Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221						
f. Phone:317-693-8716			g. Phone:317-693-8716				
If owner of the generating facility differs	from the generator, pr	ovide:					
h. Owner's Name:	ij		i. Owner's Phone No.:				
j. Waste Profile #	k. Exp. Date		ping Name and		ntainers	n. Total	o. Unit Wt/Vol
,		Description		No.	Туре	Quantity	740.401
#3267 13 8622	5/28/2014	Contaminate	d Soil + saltwater)			1	20 99
,							
					voleta para de la composito de		
GENERATOR'S CERTIFICATION: I he state law, has been properly described, waste is a treatment residue of a previous been treated in accordance with the recommendation.	, classified and packag	ed, and is in prop	er condition for transportation to the Land Disposal Restric	n accordin ctions. I ce	g to applic ertify and v	varrant that the	13, MIND, 11 11 113
DAVID GELHAU		21	1/2_		5	-30-1	3
p. Generator Authorized Agent Name (I		ignatule /			r. Date		
II. TRANSPORTER (Gel	nerator completes	Ila-b and Tea	asporter completes IIc-	e)			-
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227		<u>')</u>				. 2	
c. Driver Name (Print)	d. Signati	ure		e. Date	-30	75	
III. DESTINATION (Gener			ation Site completes Ille	d-g)			
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive		c. US EPA Nun		ation Spac	e:		
Pimento, IN 47866 b. Phone: 812-299-9227							
I herby certify that the above named ma	aterial has been accep	ted and to the bes	st of my knowledge the foreg	oing is trui	e and accu	ırate.	
	weerchillistes						
e. Name of Authorized Agent (Print)	f, Signatu		L 487, F	g. Date			
IV. ASBESTOS (Generate	or completes IVa-f	and Operator	r complete IVg-i)				H = 1
a. Operator's Name and Address:			c. Responsible Agency Nar d. Phone:	ne and Ad	oress:		
b. Phone: e. Special Handling Instructions and Acc.	dditional information:	4					
f. S Friable Non-Friable Be OPERATOR'S CERTIFICATION: I here and are classified, packed, marked and national governmental regulations.	oth % Fria aby declare that the co I labeled and are in all	ntents of this con-	% Non-Friable signment are fully and accurate condition for transport by his	ately desci ighway ac	ibed abov cording to	e by proper sh applicable inte	ipping name rnational and
g. Operator's Name and Title (Print)	h. Signat	ure		i. Date		d au 81- a - 1	lition or
*Operator refers to the company which renovation operation or both	owns, leases, operate	s, controls, or sur	pervises the facility being den	nolished o	r renovate	u, or the demo	ILLIOIT OF
Total desir operation of the second	1/	122	2 7 8	15	40)	

SITE TICKET GRID SYCAMORE RIDGE LANDFILL 177223 00005621 E COTTOM RD WEIGHMASTER FIMENTO IN 47866 fete r DATE IN TIME IN 30 May 2013 1:37 cm 000100 RSWI ROLLOFF DATE OUT TIME OUT 12820 S CLIMMINSVILLE RD 30 May 2013 1:56 cm PIMENTO, IN 47866 VEHICLE ROLL OFF KEPS401 Contract: 3267138622 REFERENCE ORIGIN C GAS GREENE IN Ol Gross Weight 75,240.00 lb Tare Weight 39,500.00 lb Inbound - SCALE TICKET Net Weight 35,740.00 lb 17.87 TN DESCRIPTION UNIT RATE QTY: EXTENSION TAX TOTAL SW-CONT SOIL TIM 17.87 NET AMOUN TENDERED CHANGE CHECK NO. SIGNATURE.

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\hbox{\tt NOT}}$ asbestos waste, complete Sections I, II and III

GENERATOR (Generator completes la-r) a. Generator's US EPA ID Number b. Manifest Document Number c. Page 1 of d. Generator's Name and Location: e. Generator's Mailing Address: Citizens Gas Citizens Gas 2431 South, 275 West 2700 South Belmont Ave Bloomfield, IN 47424 Indianapolis, IN 46221 f. Phone:317-693-8716 g. Phone:317-693-8716 If owner of the generating facility differs from the generator, provide: h. Owner's Name: i. Owner's Phone No.: j. Waste Profile # k, Exp. Date I. Waste Shipping Name and m. Containers n. Total o. Unit Description No. Quantity Wt/Vol #3267 13 8622 5/28/2014 Contaminated Soil (oil + Szlhwater) GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. DAVID GELHAUSEN 5 · 30 · 13 p. Generator Authorized Agent Name (Print) q. Signature TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e) 11. a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-92 c. Driver Name (Print) d. Signature e. Date **DESTINATION** (Generator complete Illa-c and Destination Site completes Illd-g) a. Disposal Facility and Site Address: c. US EPA Number d. Discrepancy Indication Space: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227 I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and e. Name of Authorized Agent (Print) f. Signature ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: b. Phone: d. Phone: e. Special Handling Instructions and Additional Information: f. Seriable Non-Friable Both Friable Whon-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. g. Operator's Name and Title (Print) h. Signature i. Date *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

SITE TICKET SYCAMORE RIDGE LANDFILL 01 177237 0000 5621 E COTTOM RD WEIGHMASTER PIMENTO IN 47866 FETE R DATE IN TIME IN 000100 30 May 2013 2:27 pm RSWI ROLLOFF DATE OUT TIME OUT 12820 S CLMMINSVILLE RO 30 May 2013 2:36 cm PIMENTO, IN 47866 VEHICLE ROLL OFF REF94-03 Contract: 3267138622 REFERENCE ORIGIN C GAS GREENE IN 01 Gross Weight 70,580.00 lb 35,420.00 lb Tare Weight Intocung - SCALE TICKET Net Weight 35,160.00 lb 17.58 TN UNIT. DESCRIPTION EXTENSION RATE TAX TOTAL 17,58 TN SW-CONT SOIL NETAMOUNT TENDERED CHANGE CHECK NO.

SIGNATURE.

EPA-R5-2017-008149_0000236

SERVICES, INC.

NON-HAZARDOUS SPECIAL WAS IE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\hbox{\tt NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Generat	tor completes la-r	r)					
a. Generator's US EPA ID Number		o. Manifest Docu	ment Number	nent Number c. Page 1 of			
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424		e. Generator's Mailing A Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221			RAMAGE I		
f. Phone:317-693-8716			g. Phone:317-693-8716	····			
If owner of the generating facility differs fr	rom the generator, pro	ovide:	•••				
h. Owner's Name:	<u> </u>		i. Owner's Phone No.:	······································			
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	pping Name and	m. Cor No.	ntainers Type	n. Total Quantity	o. Unit Wt/Vol
#3267 13 8622	5/28/2014 .	Contaminate	d Soil		fo	/	120
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requirements.	lassified and packaged sly restricted hazardou	id, and is in propi us waste subject	er condition for transportation to the Land Disposal Restr	on according	g to applica	able regulation varrant that the	s AND if this
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II. TRANSPORTER (Gene			nsporter completes IIc	-e)	r. Date		
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227		0					
0. Priorie. 012-235-3221	7	151	<u> </u>			5-30	-1-3
c. Driver Name (Print)	d. Signature			e. Date			
III. DESTINATION (Generate						M&Wall	
Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive		c. US EPA Numi	ber d. Discrepancy Indic	ation Space	## · · · · · · · · · · · · · · · · · ·		
Pimento, IN 47866 b. Phone: 812-299-5227		1 4	_	•	,		•
I herby certify that the above named mater	rial has been accepted	d and to the best	t of my knowledge the foreg	joing is true	and accur	ate.	
					1/-	0//	\geq
e. Name of Authorized Agent (Print)	1. Signature		*	g. Date	/		
a. Operator's Name and Address:	completes iva-ya		complete IVg-I) c. Responsible Agency Nar	and Add	Inches:		W
a. Oporator o Namo ana nacioco.		Community of the Commun	с. Кезропыме Адепсу га	Tie and Add	ress.		٠
b. Phone: d. Phone:							
e. Special Handling Instructions and Addition	onal Information:		and the state of t		- Annual	~ 100°C	
f. ☑ Friable ☐ Non-Friable ☐ Both	% Friable	3	% Non-Friable			·	
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations.	declare that the conte beled and are in all res	ents of this consigners	gnment are fully and accura condition for transport by hi	ately describ	red above	by proper ship oplicable interr	ping name national and
Halloriai governimentai regulationis.		17		OX		13d	カマ
g. Operator's Name and Title (Print)	h. Signature	; / / /	261	i. Dave			
*Operator refers to the company which own renovation operation or both	ns, leases, operates, o	controls, or super	rvises the facility being dem	nolished or r	renova te d,	or the demoliti	ion or

SYCAMORE RIDGE LANDFILL TICKET GRID 8621 E COTTOM RD 01 177261 OOOOFIMENTO IN 47866 WEIGHMASTER FETE R DATE IN 000100 TIME IN 30 May 2013 4:45 pm REWI FOLLOFF DATE OUT 12820 S CLMMINSVILLE RO TIME OUT 30 May 2013 FIMENTO, IN 47866 4:153 pm VEHICLE ROLL OFF REFERENCE Contract: 3267138622 ORIGIN CGAS GREENE IN 70,560.00 lb 01 Gross Weight Tare Weight 35,340.00 lb Inbound - SCALE TICKET Nert Wesight 35,220.00 lb 17.61 TN UNIT DESCRIPTION RATE EXTENSION TAX TOTAL 17.61 TN SW-CONT SOIL WET AMOUNT TENDERED CHANGE CHECK NO. SIGNATURE

SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is $\underline{\text{NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Genera	tor completes la-r	٠)					
a. Generator's US EPA ID Number	b	. Manifest Docur	nent Number		c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424	e. Generator's Mailing Ad Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221		1				
f. Phone:317-693-8716		g. Phone:317-693-8716					
If owner of the generating facility differs t	rom the generator, pr	ovide:					
h. Owner's Name:	ú		i. Owner's Phone No.:				······ γ······························
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	ping Name and	Mo.	ntainers Type	n. Total Quantity	o. Unit Wt/Vol
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GENERATOR'S CERTIFICATION: I her	ehy certify that the ah	ove named mate	rial is not a hazardous wast	e as define	d by 40 C	 FR 261 or anv a	applicable
state law, has been properly described, of	classified and package sly restricted hazardor	ed, and is in prope us waste subiect	er condition for transportation to the Land Disposal Restri	on accordir ictions. I c	ig to applic ertify and v	able regulation varrant that the	s: AND. if this
been treated in accordance with the requ	irements of 40 CFR 2	68 and is no long	jer a nazardous waste as d	elined by 4)	
John T. Shelton	- photon		r. Date	30//3	.		
p. Generator Authorized Agent Name (Print) q. Signature r. Date II. TRANSPORTER (Generator completes Ifa-b and Transporter completes IIc-e)							
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866			•				
b. Phone: 812-299-9227		///		T-4	22		
Chais DAVES	1/6		2	15	30		
c. Driver Name (Print) III. DESTINATION (Genera	tor complete IIIa		tion Site completes III	e. Date			
III. DESTINATION (General a. Disposal Facility and Site Address:	tor complete ma-	c. US EPA Num			e:		
Sycamore Ridge Landfill				·		•	
5621 E Cottom Drive Pimento, IN 47866		11	•				
b. Phone: 812-298-9227 I herby certify that the above named mate	erial has been accepte	and to the best	of my knowledge the foreg	joing is true	and accu	rafte.	
				37	3/1/	73	
e Name of Authorized Agent (Print)	Signatur		***	g. Date			
IV. ASBESTOS (Generator	completes IVa-f						
a. Operator's Name and Address:			c. Responsible Agency Na	me and Ad	dress:		
d Dhanai							
b. Phone: d. Phone: e. Special Handling Instructions and Additional Information:							
f. ⊠ Friable ☐ Non-Friable ☐ Both	% Friab	le	% Non-Friable			h	
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and la	/ declare that the cont beled and are in all re	ents of this consi espects in proper	gnment are fully and accura condition for transport by hi	ately descr ighway acc	ped above ording to a	e by proper snip applicable interr	ping name national and
national governmental regulations.					7		
		177	264	$\leq \Lambda$		3 40	
g. Operator's Name and Title (Print) *Operator refers to the company which ov	h. Signatur	controls or supe	nises the facility being den	i. Date	removated	or the demolit	ion or
renovation operation or both	mia, icaaca, uperates,	controls, or supe	a resource income, being deti		. 5170 10100	, or the demonstration	

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SIGNATURE	TENDERED CHANGE CHECK NO.

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\hbox{\tt NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Genera	tor complet	tes la-r)							
I. GENERATOR (General a. Generator's US EPA ID Number	((Or Corribio	b. 1	Manifest Docu	ment Nu	ımber		c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			e. Generator's Mailing Address: Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221						
f Dhana;247.602.9746				g. Pr	ione:317-693-8716				
f. Phone:317-693-8716 If owner of the generating facility differs	from the gene	rator, prov	ide:					V-1 d-7940	······································
h. Owner's Name:	Ą				ner's Phone No.:				
j. Waste Profile #	k. Exp. Da	te	Waste Ship Description	pping Na	ame and	m. Coi	ntainers Type	n. Total Quantity	o. Unit Wt/Voi
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waste law, has been properly described, waste is a treatment residue of a previous been treated in accordance with the requirements.	naturaetricten i	nazardous	waste subject	r io ine i	.ano wisbosal Resinc	HODS. I CE	army and v	<i>t</i> arrani mai me wa	iste has
Ronald Socies Remain fine							5-31-13		
p. Generator Authorized Agent'Name (Print) q. Signature r. Date									
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227									
a Priver Name (Print)	all d.	Signature	人》是			e. Date	31-	/	
c. Driver Name (Print) III. DESTINATION (General			and Destina	ation S	ite completes Ilid	l-g)			· · · · · · · · · · · · · · · · · · ·
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866		C	. US EPA Num	nber (d. Discrepancy Indica	tion Spac			
I herby certify that the above named mat	erial has been	accepted	and to the bes	st or my	knowleage the forego				
R TUCKE	<u>C-</u>		<u> </u>	يحلا	200		<u>-31-</u>	·\>	
e. Name of Authorized Agent (Print) IV. ASBESTOS (Generator	completes	Signature . IVa-f ar	nd Operator	comp	lete IVa-i)	g. Date	· · · · · · · · · · · · · · · · · · ·		
IV. ASBESTOS (Generator a. Operator's Name and Address:	Completes	17010	Г	c. Resp	oonsible Agency Nam	e and Add	iress:		
ar opolater o riamo ana riadrosor			**************************************		•		٠		
b. Phone: d. Phone:									
e. Special Handling Instructions and Additional Information:									
f ⊠ Friable □ Non-Friable □ Both % Friable % Non-Friable									
f. Sriable Non-Friable Bot OPERATOR'S CERTIFICATION: I hereb and are classified, packed, marked and le national governmental regulations.	y declare that	the conter	nts of this cons pects in proper	ianmen	are fully and accurat	tely descri hway acc	bed above ording to a	by proper shippir pplicable internati	ng name onal and
MANORAL SOFTIMIONAL TOSULATIONS								TO THE RESERVE THE PERSON OF T	
g. Operator's Name and Title (Print)	h.	Signature				i. Date			
*Operator refers to the company which or renovation operation or both	wns, leases, o	perates, co	ontrols, or supe	ervises t			renovated	, or the demolition	or
	1 /	1 < 1		_	2.10/	•			

SITE TICKET GRID SYCAMORE RIDGE LANDFILL 01. 177915 000005421 E COTTOM RD WEIGHMASTER ROBERT T FIMENTO IN 47866 DATE IN TIME IN 8:50 am 31 May 2013 000100 REMAI ROLLOFF TIME OUT DATE OUT 12820 S CLAMINSVILLE RO 31 May 2013 9:108 am PIMENTO, IN 47866 VEHICLE ROLL OFF <u>BEF3426</u> ORIGIN REFERENCE Contract: 3267138622 CIT GAS GREENE IN 62,400.00 lb Ol Gross Weight 33,980.00 lb Tarre Wedght Inbound - SCALE TICKET Net Weight 28,420.00 lb 14.21 TN RATE 3 DESCRIPTION EXTENSION UNIT TOTAL 14.21 TN SW-CONT SOIL NETAMOUNT

SIGNATURE

TENDERED

CHANGE

CHECK NO.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is \underline{NOT} asbestos waste, complete Sections I, II and III

I. GENERATOR (Generat	or comple								
a. Generator's US EPA ID Number		b.	Manifest Docum	nent Number			c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424		e. Generator's M Citizens Gas 2700 South Bell Indianapolis, IN	mont Ave	dress:	<u> </u>				
f. Phone:317-693-8716 If owner of the generating facility differs fr	om the gen	erator, prov	/ide:	g. Phone:317-69	93-8716				
h. Owner's Name:	ů.			i. Owner's Phon	e No.:				
j. Waste Profile #	k. Exp. D	ate	I. Waste Ship Description	ping Name and	ý	m. Cor No.	tainers Type	n. Total Quantity	o. Unit Wt/Vol
#3267 13 8622	5/28/2014	4	Contaminate	d Soil			RO	l	20
,									
				,					
GENERATOR'S CERTIFICATION: I here state law, has been properly described, c waste is a treatment residue of a previous been treated in accordance with the requi	assified an	d packaged d hazardous	l, and is in prop s waste subiect	er condition for tra to the Land Dispo	insportatio sal Restric	n accordin ctions. I ce	g to applic ertify and v	able regulation varrant that the	s; AND, if this
Ronald Sparts Romald Spale 5-31-13									
p. Generator Authorized Agent Name (Print) q. Signature r. Date									
II. TRANSPORTER (General Address:	rator con	ipietes iii	a-D and mai	isporter compr	etes IIC-	<u> </u>			
Republic Services 5621 E Cottom Drive Pimento, IN 47866		1	/]	1					
b. Phone: 812-299-9227	,	1//				5	-3/^	13	
c. Driver Name (Print)		d. Signatute				e. Date			
III. DESTINATION (Genera	tor compl								
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive			c. US EPA Num	ber d. Discrepa	ancy Indica	ation Space	e:		
Pimento, IN 47866 b. Phone: 812-299-82227							· · · · · · · · · · · · · · · · · · ·		
I herby certify that the above named mate	rial has bee	en accepter	arid to the bes	t of my knowledge	the foreg	oing is true	and accu	irate./	
			P			S	/5/	115	
e. Name of Authorized Agent (Print)		f. Signature			•	g. Date/			
IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)									
a. Operator's Name and Address: c. Responsible Agency Name and Address:									
b. Phone:									
e. Special Handling Instructions and Addi	lional Inforn	nation:							
f. ⊠ Friable ☐ Non-Friable ☐ Both	<u> </u>	% Friable		% Non-Friable ·		<u> </u>			,
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and la	declare th	at the conte	ents of this cons	ignment are fully a condition for trans	and accura sport by hi	ately descri ghway acc	bed above ording to	e by proper shi applicable inter	pping name . national and
national governmental regulations.		- f							
0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Cianata				i. Date			
g. Operator's Name and Title (Print) *Operator refers to the company which ov	ار vns, leases.	//. Signature , operates, o	controls, or sup	ervises the facility	being den		renovate	or the demol	ition or
renovation operation or both	.,	notes				·	$\Rightarrow \!\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! $	ED 2	11/21
		¥	17433	לאכ			/)	17 2	401

SITE TICKET GRID SYCAMORE RIDGE LANDFILL 01 177356 0000 5621 E COTTOM RD WEIGHMASTER FIMENTO IN 47866 RUMERT T DATE IN 000100 31 May 2013 1.1 a 27 am REWI ROLLOFF DATE OUT TIME OUT 12820 S CLMMINSVILLE FD 31 May 2013 11:46 am PIMENTO, IN 47866 VEHICLE ROLL OFF REF:3401 ORIGIN Contract: 3267138622 REFERENCE C GAS GREENE IN 01 Gross Weight 82,580.00 lb Tare Weight 37,420.00 lb Inbound - SCALE TICKET Net Weight 45,160.00 lb 22.58 TN UNIT DESCRIPTION PATE EXTENSION XAT TOTAL 22.58 TN SW-CONT SOIL NETAMOUNT TENDERED

SIGNATURE.

CHANGE

CHECK NO.

REPUBLIE NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST SERVICES, INC.

If waste is asbestos waste, complete Sections I, II, III and IV If waste is $\underline{\text{NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Gener	ator complete				~ ,		
a. Generator's US EPA ID Number		b. Manifest Docu	ıment Number		c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424	e. Generator's Mailing A Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221						
f. Phone:317-693-8716	food the	A	g. Phone:317-693-8716			-	N
If owner of the generating facility different	s from the genera	tor, provide:					
h. Owner's Name: i. Waste Profile #	k. Exp. Date	I Wasta Ch	i. Owner's Phone No.:	l m Con	tainara	n. Total	I a Hait
j. Waste Flome #	K. Exp. Date	Description	pping Name and	No.	tainers Type	Quantity	o. Unit Wt/Vol
#3267 13 8622	5/28/2014	Contaminate (oil	ed Soil + SZItwaten)	j	RO	/	20 cyd
• :							
			-				
GENERATOR'S CERTIFICATION: I he state law, has been properly described, waste is a treatment residue of a previous been treated in accordance with the recommendation.	classified and pa	ackaged, and is in prop zardous waste subjec	per condition for transportation to the Land Disposal Restr	on according	g to applic	able regulation varrant that the	s; AND, if this
David Gelhanson		2011.8	n			31.13	
 p. Generator Authorized Agent Name (F II. TRANSPORTER (Generator) 		q. Signature			r. Date		
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227	-01/		<i>y</i>		~ /		
<u> リッケハ りんん</u> c. Driver Name (Print)		CAUSA IXI gnature		e. Date	<u> 3/-</u>	<u> </u>	
III. DESTINATION (Gener			ation Site completes III	· · · · · · · · · · · · · · · · · · ·		····	·
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone 612-299-9227		c. US EPA Nun	<u> </u>		*	-	
I herby certify that the above named ma	terial has been a	coppled and to the bes	it of my knowledge the foreg	joing is true,	and accur	ate.	
A.T.		54 <i>71</i> 1	•	5%	3//	13	-
Name of Authorized Agent (Print) ASBESTOS (Generate	· · · · · · · · · · · · · · · · · · ·	mature Constant	complete IVe iV	g. Date	77		
a. Operator's Name and Address:	r completes i	va-i and Operator	c. Responsible Agency Nar	me and Add	ress:	1944-1947 (Tr. 1971-1944-1944-1944-1944-1944-1944-1944-	
b. Phone:			d. Phone:				
e. Special Handling Instructions and Add	ditional Informatio	n:					P 44
. ⊠ Friable □ Non-Friable □ Bo	th %	Friable	% Non-Friable				
OPERATOR'S CERTIFICATION: I herel and are classified, packed, marked and locational governmental regulations.	by declare that the	e contents of this cons	ignment are fully and accura	ately describ ghway acco	ed above rding to a	by proper ship pplicable interr	ping name national and
rational governmental regulations.		Maria de Ma	and the second s	1	1	77	1/27 /
g. Operator's Name and Title (Print) Operator refers to the company which o		gnature	ervises the facility being den	i. Date	enovete	or the demolit	T-0-12
enovation operation or both				TOTION TOTAL	onovalgu,	or the demont	· · · · · · · · · · · · · · · · · · ·
	711	17735	7				

SYCAMORE RIDGE LANDFILL 5621 E COTTOM RD PIMENTO IN 47866

000100 REWI ROLLOFF 12820 S CLMMINSVILLE RD PIMENTO, IN 47866

Contract: 3267138622

GRID TICKET 177357 0000OLWEIGHMASTER ROBERT T TIME IN DATE IN 11#31 am 31 May 2013 TIME OUT DATE OUT 11:44 am 31 May 2013 VEHICLE ROLL OFF REF3426 REFERENCE ORIGIN GREENE IN 0 008

Tare Weight 77,300.00 lb Tare Weight 34,800.00 lb Ol Gross Weight

Incound - SCALE TICKET

	Next W	Wight 42,500.(00 lb 21.25 TN	<i>y</i>			
OTY.	UNIT	DESCR	NOTION	RATE	EXTENSION	TAX	TOTAL
2125	TN	SW-CONT SOIL		# management			
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CHANGE

CHECK NO.

SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Generat	tor compl	etes la-	·r)					
a. Generator's US EPA ID Number			b. Manifest Docur	ment Number		c. Page) 1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424				e. Generator's Mailing A Citizens Gas 2700 South Belmont Av Indianapolis, IN 46221			water and the second	
f. Phone:317-693-8716				g. Phone:317-693-8716	<u>.</u>			
If owner of the generating facility differs fr	rom the gen	erator, pr	rovide:	g. Filono.o 17 -000 5			h~ == (-ali/ali/)	
h. Owner's Name;	ų			i. Owner's Phone No.:				
j. Waste Profile #	k. Exp. Da	ate	I. Waste Shir	pping Name and	m. Co	ntainers	n. Total	o. Unit
		^~~~ ~~~	Description		No.	Туре	Quantity	Wt/Vol
#3267 13 8622	5/28/2014	ļ	Contaminated	d Soil Szitwater)		RO		20 yd
GENERATOR'S CERTIFICATION: I here state law, has been properly described, clawaste is a treatment residue of a previous been treated in accordance with the require	lassified and sly restricted	d package I hazardou	ed, and is in properus us waste subiect i	er condition for transportati to the Land Disposal Restr	ion according	ig to applicate and war in a contract of the c	able regulation	s: AND, if this
DAVID GELHAUSEN			<i>M</i>	122			5 · 3/ · /	3
p. Generator Authorized Agent Name (Prin II. TRANSPORTER (Generation)			ignature/			r. Date		****
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227	·	4		1		***************************************		
c. Driver Name (Print)		Signatur	1/1/2	22	50	<u> </u>	3	
III. DESTINATION (Generate				tion Site completes II	e. Date		p-p-q-an-an-an-an-an-an-an-an-an-an-an-an-an-	
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227			c. US EPA Numb	ber d. Discrepancy Indic	cation Space			
I herby certify that the above named materi	ial has beer	1 accepte	d and to the best	of my knowledge the foreç	going is true	and accur	gle.	
	1/				57	3//	13	
e. Name of Authorized Agent (Print)		Signature			g. Date			
IV. ASBESTOS (Generator o	completes	<u>3 1Va-f</u> ε		, , ,	***************************************	·····		
a. Operator's Name and Address:	,			c. Responsible Agency Nar	me and Add	ress:		
b. Phone:			•	d Ohana				
 e. Special Handling Instructions and Addition 	onal Informa	ation:		d. Phone:		***************************************		
•								
f. ⊠ Friable ☐ Non-Friable ☐ Both		% Friable	- T	% Non-Friable				
OPERATOR'S CERTIFICATION: I hereby of and are classified, packed, marked and laborational governmental regulations.	declare that	the conte	ents of this consig	gnment are fully and accura	ately describ	ed above ording to a	by proper ship oplicable intern	ping name ational and
•	***************************************		1-7-	7.1				
g. Operator's Name and Title (Print)		Signature		40.1	i. Date			***************************************
*Operator refers to the company which own renovation operation or both				vises the facility being den		enovated,	or the demoliti	on or

SYCAMORE RIDGE LANDFILL 5621 E COTTOM RO FIMENTO IN 47866 000100	SITE TICKET O1 17774-07 WEIGH	GRID OCOCI MASTER
RSWI FOLLOFF 12820 S CLMMINSVILLE RD FIMENTO, IN 47866 Contract: 3267138622	DATE IN 31 May 2013 211 DATE OUT 31 May 2013 21 VEHICLE	TIME IN SO (CORD) TIME OUT SO (CORD) ROLL OFF
Ol Gross Weight 77,600.00 lb Tare Weight 35,820.00 lb Net Weight 41,980.00 lb 20.99 TN SW-CONT SOIL	Tribourse SCALE TICK	CFREENE IN
SIGNATURE		TENDERED CHANGE CHECK NO.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

	Senerator completes la	~~~					
a. Generator's US EPA ID Numb	per	b. Manifest Docur	ment Number		c. Page	₃ 1 of	
d. Generator's Name and Location Citizens Gas 2431 South, 275 West Bloomfield, IN 47424	on:		e. Generator's Mailing Ad Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221				
f. Phone:317-693-8716			g. Phone:317-693-8716				
If owner of the generating facility	differs from the generator,	provide:	g. i nono.o. i del l				94
h. Owner's Name:	It Can Date	1 121-ata Chi	i. Owner's Phone No.:	· · · · · · · · · · · · · · · · · · ·]	3 4 - 14
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	pping Name and	Mo.	ntainers Type	n. Total Quantity	o. Unit Wt/Vol
#3267 13 8622	5/28/2014	Contaminated	ed Soil + 5 = 1 two ken)	(Ro	1	20 y d
GENERATOR'S CERTIFICATION state law, has been properly described waste is a treatment residue of a been treated in accordance with the state of the	cribed, classified and package previously restricted hazard	aged, and is in prope dous waste subject	er condition for transportation to the Land Disposal Restri	on accordin rictions. I ce	ng to applic	cable regulation warrant that the	ns: AND, if this
A Deen realed in accordance	Tie requirements or 10 c	200 and is no ions	Jel a liazardous wasto as a.	Billieu by ¬.	OCTA EU.	<u></u>	
p. Generator Authorized Agent Na	ama /Drint\	. Signature	<u> </u>		r. Date	A	A
	(Generator completes		nsporter completes IIc-	<u>-e1</u>	I. Date		
a. Transporter's Name and Addre Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-8227				-		<u> </u>	
DAVID GELHAUSE		7//X 2			5.3	1.13	
c. Driver Name (Print)	d. Şignaj	f	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	e. Date		-	
	Generator complete tila					······································	
a. Disposal Facility and Site Addressycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-289-9734		c. US EPA Numb	20		5/3	1/13	3
I herby certify that the above name	6d material has been accep	ited and to the best	of my knowledge the foreg	oing is true	and accur	rate!	
Mount stoll	100	XLLAUX	115	2	-31-	13	
e/Name of Authorized Agent (Print IV. ASBESTOS (Gene				g. Date			***************************************
a. Operator's Name and Address:	erator completes IVa-f	······································	c. Responsible Agency Nan	me and Add	drace.		
a. Operator o mano and manage			G. Responsible Agency (to	lib and me	litoo.	•	
b. Phone:			d. Phone:				
e. Special Handling Instructions an	nd Additional Information:						
f. S Friable Non-Friable OPERATOR'S CERTIFICATION: I and are classified, packed, marked national governmental regulations.	d and labeled and are in all i	ontents of this consig	% Non-Friable gnment are fully and accura condition for transport by hig	ately describ ghway acco	bed above ording to a	by proper ship	ping name national and
		177	MAR	Y	8/=	3426	
g. Operator's Name and Title (Print		ure / /	700	i. Date	7	-(
*Operator refers to the company w	hich owns, leases, operates	s, controls, or super	rvises the facility being dem		renovated	, or the demoliti	ion or

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						SITE	TICKET	ader an vascados reservados (habitados de servicios (historias de servicios (historias de servicios (historias	GRID		
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FIMENTO	MI "C	47866				VEHICLI			ROLL	OFF	
							<u> 3426</u>	1		~~~~~~~	
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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is $\underline{\text{NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Generat	or completes	la-r)					
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			e. Generator's Mailing A Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221				
f. Phone:317-693-8716 If owner of the generating facility differs fr	om the generato	r provide:	g. Phone:317-693-8716			MARK PARAL	
	-	r, provide.					
h. Owner's Name:	ii k. Exp. Date	I Wasta Chir	i. Owner's Phone No.:	1 m Co.	ntainers	n. Total	o. Unit
j. waste Profile #	k. Exp. Date	Description	pping ivaline and y	No.	Type	Quantity	Wt/Vol
#3267 13 8622	5/28/2014	Contaminate	d Soil	(20	20	y

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GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requirements.	assified and pack ly restricted haza	kaged, and is in prop ardous waste subject	er condition for transportation to the Land Disposal Restr	on according ictions. I ce	g to applic ertify and v	able regulations varrant that the v	; AND, if this
Devin Gillun		17: M	M		٤٠	-3-13	
p. Generator Authorized Agent Name (Pri	nt)	g. Signature			r. Date		·····
II. TRANSPORTER (Gene			nsporter completes IIc	-e)			,
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone; 812-299-9227							
Jack Chisty		Jack A	No. 200 State - Million and State - Market - Market State - Market - Market State - Market - Market State - Market State - Market State - Market State - Mar	1 6/3	113		
c. Driver Name (Print)	d. Sigr	ature		e. Date	t +		
III. DESTINATION (Generat	or.complete li	la-c and Destina	tion Site completes III	d-g)			
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227		c. US EPA Num	ber d. Discrepancy Indic	ation Space	:		
I herby certify that the above named mater	ial has been acc	epted and to the bes	of my knowledge the foreg	joing is true	and accur	rate./.	
		X & Ce		16	o/5	//3	
e. Name of Authorized Agent (Print)	f. Sign	ature		g. Date			
IV. ASBESTOS (Generator	completes IVa	a-f and Operator	complete IVg-i)			***	
a. Operator's Name and Address:			c. Responsible Agency Na	me and Add	lress:		
b. Phone:			d. Phone:				
e. Special Handling Instructions and Addition	onal Information:						
f. S Friable Non-Friable Both			% Non-Friable	atalic da **		by open and the	
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations.							
			•		10	1311	25
g. Operator's Name and Title (Print)	h. Sign			i. Date	109	270	<u>ت</u>
*Operator refers to the company which own renovation operation or both	ns, leases, opera	tes, controls, or supe	rvises the facility being den	nolished of	renovated	, or the/demolitic	on or
- one reason operation of both			177/1/2		hooding and hooding and hooding to the last	AN MERICAN AND A REPORT TO SOME FOR A STATE OF THE STATE	

SYCHMORE REDGE LANDFILL. O1177682 $\langle \mathcal{O}(\mathcal{O}) \rangle$ 5421 E COTTOM RD WEIGHMASTER FIMENTO IN 47866 FETE R DATE IN TIME IN 2:59 pm 000100 3 June 2013 DATE OUT RSWI ROLLOFF TIME OUT 12820 S CLMMINSVILLE RD 3 June 2013 3:17 pm PIMENTO, IN 47866 VEHICLE ROLL OFF REF3425 REFERENCE ORIGIN Contract: 3267138622 GREENE IN CGAS 01 Gross Weight '75,500,00 lb Tare Weight 33,580.00 lb Inbound - SCALE TICKET 41,920.00 lb 20.96 TN Net Weight DESCRIPTION UNIT PATE EXTENSION TAX TOTAL QTY. SW-CONT SOIL ٠. ١ 20.96 TN NET AMOUNT TENDERED CHANGE CHECK NO.

SITE

TICKET

GRID

SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\underline{\tt NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Genera	itor completes I	a-r)								
a. Generator's US EPA ID Number		b. Manifest Docui	ment Number			c. Page	1 of			
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424		L	e. Generator's Mailing Address: Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221							
f. Phone:317-693-8716			g. Phone:317-69	3-8716						
If owner of the generating facility differs	from the generator,	provide:	9.1 /10/10/07/1-03/	J-07 10	and the strategy against an appropriate and	· · · · · · · · · · · · · · · · · · ·	***************************************			
h. Owner's Name:	ú		i. Owner's Phone	No.:						
j. Waste Profile #	k. Exp. Date		pping Name and	*		ntainers	n. Total	o. Unit		
		Description			No.	Туре	Quantity	Wt/Vol		
#3267 13 8622	5/28/2014	Contaminate	d Soil			Ro		20		
					Andrew Andrews	**************************************		The state of the s		
GENERATOR'S CERTIFICATION: I her state law, has been properly described, of waste is a treatment residue of a previous been treated in accordance with the requirement.	lassified and packa sly restricted hazar	iged, and is in prope dous waste subiect	er condition for trans to the Land Disposa	sportational Restric	n according	g to applic	able regulation	s: AND if this		
Devin Gillun		17.	Mil			6-3				
p. Generator Authorized Agent Name (Pr	int) q.	Signature Signature				r. Date	1 9	·		
II. TRANSPORTER (Gene	erator complete	s IIa-b and Tran	sporter complet	es IIc-e	3)					
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227			9							
Conis DACES					0-	3-13)			
c. Driver Name (Print) / III. DESTINATION (General	d Signa	**************************************	tion Cito comple	ا ا م	e. Date					
a. Disposal Facility and Site Address:	tor complete ma	c. US EPA Numb	•		Ψ,	ı •	**************************************			
Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866				,						
b. Phone: 812-299-9227 I herby gertify that the above named mate	riol had boon again	l de la	06		L !					
Thereby centily that the above harned mate	nar nas deen accer	Aled alle to the dest	or my knowledge til	ie iorego	nig is rige	and accur	ate.			
a flow of Authorized Apont (Driet)		PIL				1-2	//->_	~_		
e Name of Authorized Agent (Print) IV. ASBESTOS (Generator	Signat		complete IVa i)		g. Date /					
a. Operator's Name and Address:	completes iva-	Market Company	c. Responsible Age	ncy Nam	e and Add	ress:				
b. Phone:			d. Phone:					to the second and a second accordance to the s		
e. Special Handling Instructions and Additi	onal information;									
f. ☑ Friable ☐ Non-Friable ☐ Both	· % Fria	ble	% Non-Friable		······································	~~~				
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lat national governmental regulations.	declare that the co beled and are in all	ntents of this consig respects in proper o	nment are fully and condition for transpo	l accurate ort by hig	ely describ hway acco	ed above ording to a	by proper ship oplicable intern	ping name ational and		
· · · · · · · · · · · · · · · · · · ·			A CONTRACTOR OF THE PROPERTY O		S	13	120	ΔH		
g. Operator's Name and Title (Print)	h. Signat	ure			. Date	7	\mathbf{G}			
Operator refers to the company which own enovation operation or both	ns, leases, operate	s, controls, or super	vises the facility bei	ng demo	lished or r	enovated,	or the demoliti	on or		
and an epotomore or bott	**************************************	1//	084	······································		**************************************	· · · · · · · · · · · · · · · · · · ·	***************************************		
			- /							

SITE TICKET GRID SYCAMORE REDGE LANDFILL O1177664 000005621 E COTTOM RD WEIGHMASTER SIMENTO IN 47866 FETE R DATE IN TIME IN 000100 3 June 2013 3:43 pm RSWI ROLLOFF DATE OUT TIME OUT 12820 S CLMMINSVILLE RD 3 June 2013 3:49 cm PIMENTO, IN 47866 VEHICLE ROLL OFF REFSAOI REFERENCE ORIGIN Contract: 3267139622 C GAS GREENE IN Ol Gross Weight 71.840.00 lb Tare Weight 36,020.00 lb Inbound - SCALE TICKET Net Weight 35,820.00 lb 17.91 TN DESCRIPTION PATE EXTENSION TAX TOTAL 17.91 TN SW-CONT SOIL NETI AMOUNTI A

CHANGE

CHECK NO.

SIGNATURE_



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Genera	tor completes	la-r)					
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	∋ 1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			e. Generator's Mailing A Citizens Gas 2700 South Belmont Av Indianapolis, IN 46221				
f. Phone:317-693-8716			g. Phone:317-693-8716	44_40,			
If owner of the generating facility differs f	-	r, provide:					
h. Owner's Name: j. Waste Profile #	k. Exp. Date	I. Waste Shir	i. Owner's Phone No.: oping Name and	l m. Co	ontainers	n. Total	o. Unit
		Description		No.	Туре	Quantity	Wt/Vol
#3267 13 8622	5/28/2014	Contaminate	d Soil		DIF OFF	30	30 x d
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requi	assified and pack by restricted haza	aged, and is in prope rdous waste subiect	er condition for transportati to the Land Disposal Restr	on accordir rictions. Le	ng to applic ertify and w	able regulation	S' AND if this
Ronald Sounds		Conseld	I Shale		1	-5-13	
p. Generator Authorized Agent Name (Pri II. TRANSPORTER (Gene		ı. Signature	apartor completes lle		r. Date		
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227		122		T 7	1-1,-	2,	
c. Driver Name (Print)	d, Sign	adure \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		e. Date	17/17	<u>/</u>	· · · · · · · · · · · · · · · · · · ·
III. DESTINATION (Generat			tion Site completes III		*		Manual Company Comments
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227		c. US EPA Numb					
I herby certify that the above named mater	ial has been acco	pted and to the best	of my knowledge the foreg	joing is true	and accur	ate.	
e. Name of Authorized Agent (Print)	A. Signa				15	<u>//_S_</u>	
IV. ASBESTOS (Generator			complete IVa-i)	g. Dăte			
a. Operator's Name and Address:			c. Responsible Agency Nar	me and Add	Iress:		
b. Phone:			Phone:				
e. Special Handling Instructions and Addition	onal Information:		58.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	***************************************	w	hh All	#*************************************
f. X Friable Non-Friable Both OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations.	% Frideclare that the coeled and are in al	ontents of this consid	% Non-Friable Inment are fully and accura Condition for transport by hi	itely descrit ghway acco	ped above ording to ap	by proper shipp pplicable interna	oing name ational and
g. Operator's Name and Title (Print) *Operator refers to the company which own	h. Signa s, leases, operate	ture es, controls, or super	vises the facility being dem	i. Date olished or j	renovar e d,	or the pendition	on/ô <u>r</u>
renovation operation or both	The state of the s	1779	27		₩(8	45	+5

SYCAMORE RIDGE LANDFILL 5621 E COTTOM RD FIMENTO IN 47866

000100 RSWI ROLLOFF 12820 S CUMMINSVILLE RD PIMENTO, IN 47866

Contract: 3267138622

SITE TICKET GRID 01 1.77927 OGGO WEIGHMASTER ROBERT T DATE IN TIME IN 5 June 2013 9:Q4 aun DATE OUT TIME OUT 5 June 2013 9:121. am VEHICLE ROLL OFF <u> REP34.25</u> REFERENCE ORIGIN CGAS OFFIENE IN

Ol Gross Weight 49,960.00 lb Tarm Weight 34,480.00 lb

Inbound - SCALE TICKET

QTY.	News t	Weight 15,480.00 lb 7.74 TN		1 165	***************************************	
<u> </u>	Oigi I	DESCRIPTION	RATE	EXTENSION	TAX	TOTA
7.74	TN	SW-CONT SOIL				
	,					
					* Annual Property of the Prope	

SIGNATURE Q. Q.

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (General	or completes l	la-r)					
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	2 1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			e. Generator's Mailing A Citizens Gas 2700 South Belmont Av Indianapolis, IN 46221				
f. Phone:317-693-8716 If owner of the generating facility differs fr	· ·	1.2	g. Phone:317-693-8716				
	om the generator,	, provide:					
h. Owner's Name: j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	i. Owner's Phone No.: oping Name and	m. Cor	ntainers	n. Total Quantity	o. Unit
#3267 13 8622	5/28/2014	Contaminate	d Soil	1	Roll	20	WtVol
, , , , , , , , , , , , , , , , , , ,				_	at		Y
GENERATOR'S CERTIFICATION: I here state law, has been properly described, clawaste is a treatment residue of a previous been treated in accordance with the require	assified and packa ly restricted hazar	aged, and is in prope dous waste subject	er condition for transportati	on according	g to applicatify and w	able regulations	OF ANITY IF this
Devig Cillian			12 him			-(3	
p. Generator Authorized Agent Name (Printle II. TRANSPORTER (Generator Authorized Agent Name (Printle III. (Generator Auth		. Signature			r. Date		
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227 C. Driver Name (Print)		Jak Cr			helv	3	
III. DESTINATION (Generate	d. Signa or complete III:		tion Site completes III	e. Date		**************************************	
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227		c. US EPA Numb	per d. Discrepancy Indic	ation Space	/	~	
I herby certify that the above named materi	al has been accer	oleg and to the best	of my knowledge the foreg	joing is true	and accur	ate.	
e. Name of Authorized Agent (Print)	Signat			- 4	2/10	119	
IV. ASBESTOS (Generator o			complete (Va-i)	g. Date	<u> </u>		
a. Operator's Name and Address:		7.4	c. Responsible Agency Nar	me and Addr	ess:	· ·	
b. Phone: e. Special Handling Instructions and Additio	nal Information:		J. Phone:				
f. S Friable Non-Friable Both OPERATOR'S CERTIFICATION: I hereby of and are classified, packed, marked and labe national governmental regulations.	% Fria leclare that the co eled and are in all	ntents of this consid	% Non-Friable inment are fully and accura condition for transport by hi	ately describe ghway accor	ed above t	oy proper shipp plicable interna	oing name ational and
							Pro-Administra
g. Operator's Name and Title (Print) *Operator refers to the company which owns renovation operation or both	h. Signates, leases, operates	ure s, controls, or super	vises the facility being dem	i. Date nolished or re	povated,	or the demolition	on or
ť	4	7	1/2/07			431	すえる

SACAMORE RIDGE LANDFILL 5621 E COTTOM RD SITE TICKET PIMENTO IN 47866 01 GRID 178309 CHICK WEIGHMASTER 000100 FETE R REWI ROLLOFF DATEIN 12820 S CLAMINSVILLE FOD 6 Jume 2013 TIME IN FIMENTO, IN 47866 DATE OUT 6 June 2013 TIME OUT Contract: 3267138622 2:06 pm VEHICLE <u> Reforça</u> ROLL OFF REFERENCE ORIGIN 01 Gross Weight CGAS 67,380,00 lb GREENE IN Tare Weight 33,1580.00 lb Not Weight Inbound' - SCALE TICKET 33,800.00 lb 16.90 TN UNIT DESCRIPTION 16.90 RATE TN EXTENSION SW-CONT SOIL TAX TOTAL S. S. NEDAMOURIA TENDERED CHANGE CHECK NO. SIGNATURE.

SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Ge a. Generator's US EPA ID Number	er		Manifest Docu	ment Number			c. Page	1 of	
d. Generator's Name and Location Citizens Gas	າ;	<u> </u>		e. Generator's M	ailing Ac	Idress:	0,, 49	7 1 01	
2431 South, 275 West				Citizens Gas 2700 South Belm	ant Ava				
Bloomfield, IN 47424				Indianapolis, IN 4					•
f. Phone:317-693-8716				g. Phone:317-693	2716				
If owner of the generating facility d	iffers from the g	enerator, pro	vide:	g. i honolo i i coc	-0110	AANAMA AA AA		A. M	
h. Owner's Name:	ņ			i. Owner's Phone	Nn.:				
j. Waste Profile #	k. Exp.	Date	I. Waste Ship	pping Name and	*		ntainers	n. Total	o. Unit
			Description			No.	Туре	Quantity	Wt/Vol
#3267 13 8622	5/28/20)14	Contaminated	d Soil			Poll OFF	21	2049
A Parameter and a second secon								-	
	Tonico and the second						-		
				A	****				
GENERATOR'S CERTIFICATION:	I hereby certify	that the abov	l ∕e named mater	rial is not a hazardo.	is waste	ac define	d by 40 CE	D 261 or any s	naliaahla
arare law, mas neem broberry descin	veu, ciassineu a	ino backaded	. and is in prope	or condition for trane	nortotica	a accordin	a ta annlia	ahla saardada.	AAIM TELLY.
waste is a treatment residue of a proceen treated in accordance with the	eviously restrict	of 40 CFR 268	Band is no long	to tne Land Disposa er <u>a hazardouş was</u> i	l Kesurc le as de	tions. 1 ce fined by 40	rtify and w CFR 261.	arrant that the	waste has
Ronald Span	<i>y</i> ~	16	La	I Share	0,		عنج	-5-13	
. Generator Authorized Agent Nam	ne (Print)	q. Sigi		- Jones 5	*le-		r. Date	Lus K	
I. TRANSPORTER (C	Generator co	mpletes IIa	a-b and Tran	sporter complete	es IIc-e)			
a. Transporter's Name and Address Republic Services	:					····			
6621/E Cottom Drive Pimento, IN 47866									
. Phone 812-299-9227									
Jack Ch	isty	Quel	<u> </u>			let	7/13	, >	
. Driver Name (Print)	acrator com	d. Signature	d Daglingt	! O!!		e. Date			
II. DESTINATION (Ger Disposal Facility and Site Address	ierator comit		US EPA Numb					······································	····
ycamore Ridge Landfill	>.	"	US EFA NUMB	er d. Discrepanc	/ Indica	ion Space	:		
621 E Cottom Drive imento, IN 47866									
. Phone: 812-299-9227			\$**P*						
herby certify that the above named	material has be	en accepted	and to the best	of my knowledge the	foregoi	-		ile.	
	wea_	0_	Juse	Xe		<u> </u>	7-1	3	
Name of Authorized Agent (Print) ASBESTOS (General)		f. Signature		* * * * * * * * * * * * * * * * * * * *		g. Date	a		
/. ASBESTOS (General Operator's Name and Address:	ator complet	es iva-ran							·····
Operator o France and Address.			C	. Responsible Agen	cy Name	and Addr	ess:	as of	
Phone:	-		d	. Phone:				.*	
Special Handling Instructions and	Additional Inforr	nation:						· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
	The state of the s								
☑ Friable ☐ Non-Friable ☐ PERATOR'S CERTIFICATION: Line	Both Both declare th	% Friable	%	Non-Friable	_1.				
PERATOR'S CERTIFICATION: I he dare classified, packed, marked ar	nd labeled and a	are in a <mark>ll</mark> resp	s of this consign ects in proper co	nment are tully and a andition for transport	accurate bv high	ly describe wav accor	ed above b wing to ap	y proper shippi olicable interna	ing name
tional governmental regulations.					· • · · · · · · ·	way acc.	alua io ati	Jiloadie ilitorita	IIUnai anu

Operator's Name and Title (Print)	1	n. Signature			 	Date			***************************************
perator refers to the company which	h owns, leases,	operates, cor	ntrols, or superv	ises the facility bein	g demol	ished or re	novated, c	or the demolitio	n or
Toration operation or both		£	5) . A	2115	10	The second	C TTV	0000	
		ζ	Kap	SHI	V10	are l	111	8294	

Ball more

SYCAMORE RIDGE LANDFILL 5621 E COTTOM RD FIMENTO IN 47866

000100 RSWI ROLLOFF 12820 S CLMMINSVILLE RD PIMENTO, IN 47866

Contract: 3267138622

SITE TICKET GRID 1.75294 0000WEIGHMASTER ROBERT T DATE IN TIME IN 7 June 2013 8:26 am DATE OUT TIME OUT 7 June 2013 8:50 am VEHICLE ROLL OFF FEF34-26 REFERENCE ORIGIN CITIZENS GAS GREENE IN

01 Gross Weight 54,540.00 lb Tare Weight 33.520.00 lb

Not Weight 23,020.00 ib 11.51 7

Inbound - SCALE TICKET

	178W ta 17	<u> </u>	MT			
QTY	UNIT	PESCRIPTION				
			PATE 5	EXTENSION	TAX	TOTAL
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						j
					i i	(C) (150 60 60 60 60 60 60 60 60 60 60 60 60 60

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CHECK NO.

SIGNATURE

REPUBLIC SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\hbox{NOT}}$ asbestos waste, complete Sections I, II and III

a. Generator's Name and Localibor. d. Generator's Name and Localibor. Clibrare Gas 2751 South, 279 West 2751 South Bellmont Ava- Indianaposa, 178, 189, 289 2751 South Bellmont Ava- Indianaposa, 178, 178, 289, 289 2751 South Bellmont Ava- Indianaposa, 178, 178, 289, 289, 289, 289, 289, 289, 289, 28	I. GENERATOR (Generat	or complete	s la-r)								
CEIZEARS Gast 275 West Bloomfack, IN 47424 Contemporary 1 (1999) C			b. N	/lanifest Doc	cument Number c. Page 1 of						
In water of the generating facility differs from the generator, provide:	Citizens Gas 2431 South, 275 West	F	<u></u>		Citizens Gas 2700 South Belmont Ave						
I. Owner's Name:	f Dhone:317-603-8716				ı	a. Phone:317-693-8716					
Waste Prince Waste Stopping Name and Reconsiders No. Type Country Wivol	If owner of the generating facility differs fr	om the genera	tor, provi	de:							
L. Waste Shipping Name and D. Contaminated Soil L. Waste Shipping Name and No. Type C. Contamity Wilvol R3267 13 8622 S/28/2014 Contaminated Soil L. W. Contaminated Soil L.	h. Owner's Name:	ú				i. Owner's Phone No.:					
GEMERATOR'S GERTIFICATION: I hereby certify that the above named mislerial is not a hazardous waste as defined by 40 CFR 281 or any applicable state from, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this been troated in accordance with the requirements of 40 CFR 288 and is no transportation according to applicable regulations; AND, if this been troated in accordance with the requirements of 40 CFR 288 and is no transportation according to applicable regulations; AND, if this been troated in accordance with the requirements of 40 CFR 288 and is no transportation according to applicable regulations; AND, if this been troated in accordance with the requirements of 40 CFR 288 and is no transporter statistical based on the state of		k. Exp. Date				oing Name and 🧳			i		
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, disastified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is as transment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I continue regulations; AND, if this waste is as the proper condition for transportation according to applicable regulation; AND, if this waste is as the proper condition for transportation according to applicable regulation; AND, if this waste is as the proper condition for transportation according to applicable regulation; AND, if this waste is a feature of the control of the proper of the proper and the waste has been readed in according to applicable and the waste has been readed and Name (Print) I. TRANSPORTER (Generator completes III.) II. DESTINATION (Generator complete III.) III. DESTINATION (Generator completes IV.) III. DESTINATION (Gen				Description	1		INO.		Quantity		
state faw, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable (Pgullations, ANU, if the waste has been treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste subject to the Land Disposal Restrictions. Leartily and warrant that the waste has been treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 261. Constitution of 40 CFR 261.	#3267 13 8622	5/28/2014 Contaminated			ted	Soil		of	20	acrel	
state faw, has been properly described, classified and packaged, and is in proper condition for transported those according to applicable regulations, ANU, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. Loarity and warrant that the waste has been treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 261. Constitution of 40 CFR 261. C											
state faw, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable (Pgullations, ANU, if the waste has been treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste subject to the Land Disposal Restrictions. Leartily and warrant that the waste has been treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 261. Constitution of the requirements of 40 CFR 261. Constitution of 40 CFR 261.		,						######			
p. Generator Authorized Agent Name (Print)	state law, has been properly described, of	lassified and pa	ackaged, izardous	and is in pro waste subje	ope ect t	r condition for transportatio o the Land Disposal Restri	n accordin ctions. I ce	g to applic ertify and v	able regulations varrant that the v	; AND, If this	
II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e) a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Plimento, IN 47866 b. Phope: 812-299-9227	Ronald Sperkes	3	K	and	4	Spele		<u> </u>	-5-13		
a. Transporter's Name and Address: Republic Services \$621 E Cottom Drive Primento, IN 47868 b. Phope: \$12:299-9227	p. Generator Authorized Agent Name (Pri	nt)				anautas assanlatas Ila	<u></u>	r. Date			
Republic Services 5621 E Cottom Drive Plmento, IN 47866 b. Phope: 812-299-927 Driver Name (Print) d. Signature e. Date III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g) a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Plmento, IN 47866 b. Phone: 812-299-9227 I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. e. Name of Afthorized Agent (Print) f. Signature g. Date IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: c. Responsible Agency Name and Address: d. Phone: e. Special Handling Instructions and Additional Information: f. Friable Non-Friable Both Friable Mon-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. g. Operator's Name and Title (Print) h. Signature i. Date *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or provovated, or the demolition or *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or provovated, or the demolition or *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or provovated, or the demolition or *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or provovated, or the demolition or *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or provovated, or the demolition or *Operator refers to the company which owns, leases, operates		rator compl	etes na	i-b and in	an	sporter completes lic-	b)			4	
c. Driver Name (Print) d. Signature e. Date III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g) a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Primento, IN 47866 b. Phone: 812-299-9227 I herby certify traiter above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. e. Name of A(thorized Agent (Print) f. Signature v. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: c. Responsible Agency Name and Address: d. Phone: e. Special Handling Instructions and Additional Information: f. Friable Non-Friable Both Friable We Non-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. g. Operator's Name and Title (Print) h. Signature i. Date *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or gnovated, or the demolition or	Republic Services 5621 E Cottom Drive Pimento, IN 47866										
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Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227 I herby certify that the above-named material has been accepted and to the best of my knowledge the foregoing is true and accurate. e. Name of Afithorized Agent (Print) f. Signature e. Name and Afithorized Agent (Print) f. Signature g. Date IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: b. Phone: e. Special Handling Instructions and Additional Information: f. Signature f. Printiple OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. g. Operator's Name and Title (Print) h. Signature i. Date Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or pnovated, or the demolition or	III. DESTINATION (General	tor complete									
e. Name of Afthorized Agent (Print) f. Signature g. Date IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: b. Phone: d. Phone: e. Special Handling Instructions and Additional Information: f. Friable Non-Friable Both % Friable % Non-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. g. Operator's Name and Title (Print) h. Signature i. Date operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or unovoxed, or the demolition or proper condition	Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone 812-299-9227			and the second s		. ·					
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a. Operator's Name and Address: b. Phone: c. Responsible Agency Name and Address: d. Phone: e. Special Handling Instructions and Additional Information: f. Friable Non-Friable Both Friable Mon-Friable Mo	e. Name of Authorized Agent (Print)			_			g. Date				
e. Special Handling Instructions and Additional Information: f. ☑ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. g. Operator's Name and Title (Print) h. Signature i. Date *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or		completes I	va-т ar	o Operato			me and Ad	dress:			
e. Special Handling Instructions and Additional Information: f. ☑ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations. g. Operator's Name and Title (Print) h. Signature i. Date *Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or	h Phone:			•		d. Phone:					
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118327 1190406	*Operator refers to the company which ow renovation operation or both	ns, leases, ope	erates, c	ontrois, or su	Jpe Jpe	rvises the facility being den	ionsned or	novated	or the definable	7	
	Company of State of S			1/1	*	227	15/	J.	140	(6	

SITE TICKET GRID SYCAMORE RIDGE LANDFILL 178339 01 QUOU 5621 E COTTOM RD WEIGHMASTER FIMENTO IN 47866 FETE R DATE IN TIME IN 000100 7 June 2013 11:20 am RSWI ROLLOFF DATE OUT TIME OUT 12820 S CLMMINSVILLE RO 7 June 2013 11:39 am PIMENTO, IN 47866 ROLL OFF <u>KEF3426</u> REFERENCE ORIGIN Contract: 3267138622 COAS GREENE IN Ol Gross Weight 61,820.00 lb Stored Tare Weight 34,100.00 lb Inbound - SCALE TICKET Net Weight 27.720.00 lb 13.86 TN DESCRIPTION PATE EXTENSION TAX TOTAL 13.86 TN SW-CONT SOIL A Victorio (1) TENDERED CHANGE CHECK NO.

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EPA-R5-2017-008149_0000236

SERVICES, INC.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is $\underline{\text{NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Gener	ator completes l	a-r)					
a. Generator's US EPA ID Number		b. Manifest Docu	ment Number		c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			e. Generator's Mai Citizens Gas 2700 South Belmo Indianapolis, IN 46	nt Ave			AAA
f. Phone:317-693-8716			g. Phone:317-693-	971 <i>6</i>			
If owner of the generating facility differs	from the generator,	provide:	g. F None.3 17-093-	0/10			·
h. Owner's Name:	și		i. Owner's Phone N	lo.:			
j. Waste Profile #	k. Exp. Date	I. Waste Ship Description	oping Name and	*************************************	ntainers	n. Total	o. Unit
#3267 13 8622	5/28/2014	Contaminate	d Soil	No.	Roll	Quantity	Wt/Vol
			·		OFF	15	Υ
	·						
GENERATOR'S CERTIFICATION: I he state law, has been properly described, waste is a treatment residue of a previou been treated in accordance with the requirements.	classified and packa isly restricted hazard	iged, and is in prop dous waste subject	er condition for transp	ortation accordin	g to applica	able regulations	· ANITY IF thin
Koneld Sparts		Kende	Spale		6-	2-13	
p. Generator Authorized Agent Name (P II. TRANSPORTER (Gen		Signature	enartar completo	م الم ما	r. Date		
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227	·		<u>, </u>				· · · · · · · · · · · · · · · · · · ·
c. Driver Name (Print)	d. Signal	Del V			17/13	3	
III. DESTINATION (General			tion Site complete	e. Date			
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 8124299-9227		c. US EPA Numi	per d. Discrepancy	Indication Space	-		May vary vary
I herby certify that the above named mate	erial has been accep	ted and to the best	of my knowledge the	foregoing is true	and accura	ate.	>
e. Name of Authorized Agent (Print)	f. Signate			-6	2/_,	// (5	<u> </u>
IV. ASBESTOS (Generator			complete (Va-i)	g. Date		/	
a. Operator's Name and Address:		······································	c. Responsible Agenc	y Name and Add	ress:		
o. Phone:		1,	i. Phone:				
e. Special Handling Instructions and Addit	ional Information:			4 ************************************			
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national governmental regulations.		**************************************			-		
g. Operator's Name and Title (Print)	h. Signatu	ıre		i. Date			
Operator refers to the company which ow enovation operation or both	ns, leases, operates	, controls, or super	vises the facility being	demolished or n	enovated d	or the demolition	n or
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SYCAM 5621 E FIMENT	JRE RI E COTT O IN	ZOE LAN OM RX 42544	DFILL.		SITE	TICKET	34009	GRID	
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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is <u>NOT</u> asbestos waste, complete Sections I, II and III

d. Generator's Name and Location: Citizens Gas 237 Seath, 278 West Bloomland, NY 47849 L. Phone-317-693-6716 I. Phone-317-693-6716 I. Phone-317-693-6716 I. Phone-317-693-6716 I. Owner's Phone No: I. Weste Profile 6 I. Owner's Phone No: I. Weste Profile 6 I. Owner's Phone No:	GENERATOR (General a. Generator's US EPA ID Number	tor complete	s (a-r) b. Manifest D	ocume	nt Number		c. Page		
Olizens Gas 241 South, 75 West Bloomfeld, 1N 47427 L Phone-317-693-8716 L Phone-317-693-8716 L Phone-317-693-8716 L Phone-317-693-8716 L Phone-317-693-8716 L Owner's Phone No.: Nower's Phone No.: Nower's Phone Nower's						Address:			#-1/10-mmm.n.n.
L Prone:317-693-8716 If owner of the generating facility differs from the generator, provide: I, Waste Profile #	2431 South, 275 West				Citizens Gas 2700 South Belmont /	√ve	•		
Lower's Phone No.: Lower's	Diolinida, IN 47424				ndianapolis, IN 4622				
D. Owner's Name Description Descriptio		rom the general	or provide:		g. Phone:317-693-871	16	***************************************		···
Liveste Profile # Liveste Shipping Name and # m. Contierrs in Trials 0.1		om me generat	or, provide.						
Description Description No. Type Quantity WW.		k, Exo, Date	I. Waste	Shinnin	. Owner's Phone No.:		ontainers	In Total	l o. Unit
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, is waste is a free internal residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. Jeeting was waste in the transportance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. Decensardor Authorized Agent Name (Print) Q. Signature II. TRANSPORTER (Generator completes IIIa-b and Transporter completes IIc-e) a. Transporter's Name and Address: Republic Services Republic S			Descript	ion	<i>y</i>				Wt/Vol
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is rot a hazardous waste as defined by 40 CFR 261 or any applicable state lew has been properly described, classified and particularly and is in proper condition for transportation according to applicable regulations. AND, it waste is a treatment residue of a proviously restricted hazardaged, and is in proper condition for transportation according to applicable regulations. AND, it waste is been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261. D. Generator Authorized Agont Mane (Print) J. Signature J. D. Generator Authorized Agont Mane (Print) J. Signature J. D. J. Signature J. D. J. Signature J. D. J.	#3267 13 8622	5/28/2014					Ro		20 cy.
state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, it waste is at reastment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste haboen treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 281. P. Generator Authorized Agent Name (Print)	·		(2011				-		
state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, it waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste habeen treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 281. Continued C									
state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, it waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste habeen treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 281. Continued C	,								
state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, it waste is at reastment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste haboen treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 281. P. Generator Authorized Agent Name (Print)					*				
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been treated in accordance with the requirements of 40 CFR 288 and is no longer a hazardous waste as defined by 40 CFR 281. Commercial Comme	state law, has been properly described, cl	assified and par	ckaged, and is in p	proper c	ondition for transporta	ation according	ng to applic	able regulation	s: AND, if this
p. Generator Authorized Agent Name (Print) II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e) a. Transporter's Name and Address: Republic Services 5621 E cottom Drive Plimento, IN 47866 b. Phone: 812-8999277 III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g) a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E cottom Drive Plimento, IN 47866 b. Phone: 812-399927. I herby certify thet the above mamed material has been accepted and to the best-orbryk knowledge the foregoing is true and accurate. ASBESTOS (Generator completes IVa-f and Operator complete IVg-l) a. Operator's Name and Address: b. Phone: b. Special Handling Instructions and Additional Information: I Friable Non-Friable Both Friable Non-Friable Both Sheriable Non-Friable Destructions and Address: DePERATOR'S CERTIFICATION: hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international an information governmental regulations. Deperator's Name and Title (Print) h. Signature I. Date Operator's Name and Title (Print) h. Signature I. Date Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renoveted, or the jerminition or renovation operation or both	been treated in accordance with the requir	rements of 40 C	ardous waste sub FR 268 and is no	oject to t longer :	ne Land Disposai Re a hazardous waste as	strictions. I c defined by 4	ertify and v 10 CFR 261	varrant that the I.	waste has
p. Generator Authorized Agent Name (Print) I. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e) a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Plmento, IN 47866 b. Phone: 812-299-9227 C. Driver Name (Print) d. Signature d. Discrepancy Indication Site completes IIId-g) a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Plmento, IN 47866 b. Phone: 812-299-9272. I herby cyeffly fight file above flamed material has been accepted and to jave best-of-my knowledge the foregoing is true and accurate. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: c. Responsible Agency Name and Address: d. Phone: d. Pho	The state of the s			18	DO 0				
a. Transporter's Name and Address: Republic Services 6521 E cottom Drive Plimento, IN 47866 b. Phone: 812-299-9227 C. Driver Name (Pilnt) d. Signature e. Date III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g) a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5521 E Cottom Drive Prenento, IN 47866 b. Phone: 812-299-9227. In the property of the prenent of the		nt)			A View		r. Date	· · · · · · · · · · · · · · · · · · ·	
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Signature Sign			,					•	
b. Phone: 812-299-9227 C. Driver Name (Print)	5621 E Cottom Drive								
c. Driver Name (Print)									
c. Driver Name (Print)	Jack Olish		Carlo	(70			10/1/10	1/3	
a. Disposal Facility and Site Address: Sycamore Ridge Landfill Socar E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227. I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. e. Meme of Authorized Agent (Print) f. Signature g. Date f. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: c. Responsible Agency Name and Address: d. Phone: e. Special Handling Instructions and Additional Information: Special Handling Instruction Special Handling Information Information: Special Handling Instruction Special Handling Information Informat	c. Driver Name (Print)	d. Siç	inature)			e. Date	WII U		
Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-399-9222. I herby cartify that the above named material has been accepted and to like best of my knowledge the foregoing is true and accurate. Asher of Authorized Agent (Print) f. Signature g. Date	III. DESTINATION (Generate	or complete	Illa-c and Dest	tinatio	n Site completes	IIId-g)			
Second Company Second Company			c. US EPA N	lumber	d. Discrepancy Inc	dication Spac	e:	**************************************	
b. Phone: 812-299-9227. I herby cartify that the above named material has been accepted and to the best from knowledge the foregoing is true and accurate. Asher of Authorized Agent (Print) f. Signature g. Date	5621 E Cottom Drive				***************************************	•		•	
I herby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate. Ashipper				7	Windows				
ASBESTOS (Generator completes IVa-f and Operator complete IVg-i) a. Operator's Name and Address: c. Responsible Agency Name and Address: d. Phone: e. Special Handling Instructions and Additional Information: c. Special Handling Instructions and Additional Information: d. Phone: c. Responsible Agency Name and Address: d. Phone: c. Responsible Agency Name and Address: d. Phone: c. Responsible Agency Name and Address: d. Phone: c. Special Handling Instructions and Additional Information: d. Phone: c. Special Handling Instructions and Additional Information: d. Phone: d. Phone: c. Special Handling Instructions and Additional Information: d. Phone: d. Phone		ial has been ac	cepted and to the	best-of	my knowledge the for	egoing is true	and accur	rate.	· · · · · · · · · · · · · · · · · · ·
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b. Phone: e. Special Handling Instructions and Additional Information: Compared to the company which owns, leases, operates, controls, or supervises the facility being demolished or renoveted, or the demolition or enovation operation or both	N. ASBESTOS (Generator of	completes IV	a-f and Opera	tor cor	nplete IVg-i)				2
E. Special Handling Instructions and Additional Information: Non-Friable Non-Friable Both % Friable % Non-Friable Non-Friable DPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international annational governmental regulations. Q. Operator's Name and Title (Print) h. Signature i. Date	a. Operator's Name and Address:			c. F	Responsible Agency N	lame and Add	dress:		**************************************
E. Special Handling Instructions and Additional Information: Non-Friable Non-Friable Both % Friable % Non-Friable Non-Friable DPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international annational governmental regulations. Q. Operator's Name and Title (Print) h. Signature i. Date									
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OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled and are in all respects in proper condition for transport by highway according to applicable international anational governmental regulations. Q. Operator's Name and Title (Print) h. Signature i. Date Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renoveted, or the demolition or renovation or both									
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g. Operator's Name and Title (Print) h. Signature Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renoveted, or the demolition or renovation operation or both	OPERATOR'S CERTIFICATION: I hereby on the classified packed marked and lab	declare that the eled and are in	contents of this co	onsignm ner con	nent are fully and accu	urately descri	bed above	by proper ship	ping name
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	Operator reters to the company which own enovation operation or both	s, leases, opera	ates, controls, or s	upervis	es the facility being de	emolished or	renoveted,	or the demoliti	on or
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SYCAMORE RIDGE LANDFILL 5621 E COTTOM RD PIMENTO IN 42866

000100 RSWI ROLLOFF 12820 S CLMMINSVILLE RD PIMENTO, IN 47866

Contract: 3267138622

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFE系

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (General	tor completes la	a-r)					
a. Generator's US EPA ID Number		b. Manifest Docur	nent Number		c. Pag	ed of	The state of the s
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			e. Generator's Mailing Citizens Gas 2700 South Belmont A Indianapolis, IN 46221	ive			Commence of the second
f. Phone:317-693-8716	th		g. Phone:317-693-871	6		Marietan Andrea Andrea	· · · · · · · · · · · · · · · · · · ·
If owner of the generating facility differs for	rom the generator,	provide:					·
h. Owner's Name:	k. Exp. Date	I Wasta Shin	i. Owner's Phone No.: ping Name and		ntainers	n. Total	To. Unit
j. vedet i eme iy	L. Exp. Bate	Description	ping Name and	No.	Type	Quantity	Wt/Vol
#3267 13 8622	5/28/2014	Contaminated	1 Soil		Roll	2040	У
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GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requirements.	assified and packa by restricted hazard	ged, and is in prope fous waste subject l	r condition for transporta to the Land Disposal Res	ation accordinatrictions. 1 c	ng to applice of the second of	cable regulations;	AND, if this
Ronald Sports		Renald	Shell			10-13	
p. Generator Authorized Agent Name (Printle II. TRANSPORTER (Gene		Signature	sporter completes II	r-e	r. Date		A445:h:
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227	· · ·					1	
c. Driver Name (Print)		Jack U		(2/10/	13	
III. DESTINATION (Generate	d. Signa or complete Illa		ion Site completes I	e. Date			****
a. Disposal Facility and Site Address:		c. US EPA Numb	<u>.</u>	• • • • • • • • • • • • • • • • • • • •	e:		
Sycamore Ridge Landfill 5621 E Cottom Drive			,				
Pimento, IN 47866 b. Phone: 812-299-9227	A CONTRACTOR OF THE PARTY OF TH						
I herby certify that the above named mater	ial has been accep	ted and to the best	of my knowledge the fore	egoing is true	and aceu	rate. /	
				1 6	2//0	2/(3	
Name of Authorized Agent (Print)	f. Signati			g. Date			
IV. ASBESTOS (Generator of	completes IVa-l						
a. Operator's Name and Address:		0	. Responsible Agency N	ame and Ade	iress:		
		-	THE REAL PROPERTY OF THE PARTY				
b. Phone:			Phone:				
e. Special Handling Instructions and Addition	onal Information:						
f. ☑ Friable ☐ Non-Friable ☐ Both	% Fria	hla 0	6 Non-Friable				
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations.	declare that the cor	ntents of this consid	nment are fully and accu	rately descrit highway acco	ped above olding to a	by proper shippin pplicable internati	g name onal and
g. Operator's Name and Title (Print)	h. Signatu	ıre		i. Date			-
*Operator refers to the company which own renovation operation or both	is, leases, operates	s, controls, or super	vises the facility being de	emolished or i	renovated	or the demolition	Pr 1
		井川	8569	***************************************	X	14/34	14

SITE TICKET GRID SYCAMORE RIDGE LANDFILL 01 176569 0000 5621 E COTTOM RO WEIGHMASTER FIMENTO IN 47866 ROBERT T DATE IN TIME IN 000100 10 June 2013 11:54 am RSWI ROLLOFF DATE OUT TIME OUT 12820 S CUMMINSVILLE FO 10 June 2013 12:11 pm FIMENTO, IN 47866 VEHICLE ROLL OFF <u>REF34.26</u> Contract: 3267138622 REFERENCE ORIGIN C GAS GREENE IN 01 Gross Weight 59,320.00 lb Tarre Weight 33,820.00 lb Inboung - SCALE TICKET Net Weight 24,500.00 lb 12.25 TN UNIT DESCRIPTION HATE EXTENSION TAX TOTAL 12.25 TW SW-CONT SOIL NETAMOUN TENDERED CHANGE CHECK NO.

ent Number		c. Page	1 of	
e. Generator's Mailing A	٠ اداده ١	_L		***
Citizens Gas 2700 South Belmont Av. Indianapolis, IN 46221				
•				
g. Phone:317-693-8716				
				******** <u>*</u>
I. Owner's Phone No.:				
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condition for transportation the Land Disposal Restrict a hazardous waste on do	ctions. I ce	rtify and wa	ore regulations; A	ND, if t
the Land Disposal Restric a hazardous waste as de	fined by 40	CFR 261.	ardine trial trie was	se nas
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Site completes IIId	e. Date			
Site completes IIId	-g)		•	
d. Discrepancy Indicat	ion Space:	***************************************		***************************************
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	acinty being demons	lacility being demolished or ren	racility being demolished or renovated, or t	i. Date facility being demolished or renovated, or the demolition or

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PIMENTO IN 47866	DATE IN	TIME IN
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Contract: 3267198622	REFERENCE ORIGIN	
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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\underline{\tt NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (General	tor comple	etes la-	r)					
a. Generator's US EPA ID Number			b. Manifest Docur	nent Number		c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			•	e. Generator's Mailing Citizens Gas 2700 South Belmont A Indianapolis, IN 46221	ve			
f. Phone:317-693-8716			- Advisory	g. Phone:317-693-871	6	. W. V. V. W.		
If owner of the generating facility differs for	rom the gene	erator, pr	ovide:					
h. Owner's Name: i. Waste Profile #	i. k. Exp. Da	44	Li Wasta Chin	i. Owner's Phone No.: ping Name and			·	T
J. Waste Florid #	K. Exp. Ua	ile	Description	ping Name and 📝	No.	ntainers Type	n. Total Quantity	o. Unit Wt/Vol
#3267 13 8622	5/28/2014		Contaminated	1 Soil	1	ROH	20 nd	У
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GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requi	assified and ily restricted	package hazardo	ed, and is in prope us waste subject t	er condition for transporta to the Land Disposal Res	ition accordin strictions. I ce	g to applica ertify and w	able regulations; a	AND, if this
# Devin bill	um		D. Mi			6	-10-13	
p. Generator Authorized Agent Name (Pri			gnature			r. Date		
II. TRANSPORTER (Gene	rator com	pletes	lla-b and Tran	sporter completes II	<u>c-e)</u>		······································	
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227								
Jack Christy		Jan.	ck U			611	13	
c. Driver Name (Print) / III. DESTINATION (Generat	···········	Signatu		ion Cita completes I	e. Date			
a. Disposal Facility and Site Address: Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866	or comple		c. US EPA Numb			· ·		
b. Phone: 812-299-9227 I herby certify that the above named mater	ial has been	accepte	d and to the best	l of my knowledge the fore	egoing is true	and accura	ate.	
R TUCKE	R (\mathfrak{A}_{-}	-dus	De	6-	11-	-13	***************************************
e. Name of Authorized Agent (Print)		Signature			g. Date		was to the second	
IV. ASBESTOS (Generator	completes	IVa-t a						
a. Operator's Name and Address:	•			Responsible Agency N	ame ane Add	iress:		
b. Phone:			THE REAL PROPERTY OF THE PARTY	I. Phone:				
e. Special Handling Instructions and Addition	onal Informa	tion:		i. Priorie.				
f. ☐ Friable ☐ Non-Friable ☐ Both OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations	declare that	% Friabl the conto in all re	ents of this consid	% Non-Friable Inment are fully and accurately ondition for transport by	rately describ	ped above lording to ap	by proper shippin oplicable internation	g name onal and
g. Operator's Name and Title (Print)*Operator refers to the company which owr		Signature perates,		vises the facility being de	T. Date molished or r	renovated.	or the demolition	or `
renovation operation or both	, (V)	,						~·.
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				23,400,00 Description			a to la taje	Safaria State of the	EXTENSION	TAX	TOTAL
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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\underline{\rm NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Genera	ator complete	s la-r)						
a. Generator's US EPA ID Number		b. M	lanifest Docun	nent Number		c. Page	1 of	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424				e. Generator's Mailing Add Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221	dress:			
·				Dhana:247 602 9746			٠	,
f. Phone:317-693-8716 If owner of the generating facility differs	from the genera	tor, provi	de:	g. Phone:317-693-8716			•	
· · · · · · · · · · · · · · · · · · ·	, ii	•		i. Owner's Phone No.:				4
h. Owner's Name: j. Waste Profile #	k. Exp. Date	.]		ping Name and		ntainers	n. Total	o. Unit Wt/Vol
-			Description	***************************************	No.	Type	Quantity	ANDAOI
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			#				and the state of t	
GENERATOR'S CERTIFICATION: I he state law, has been properly described, waste is a treatment residue of a previous been treated in accordance with the recommendation.	classified and p	ackaged, azardous	and is in prop	er condition for transportation to the Land Disposal Restric	ctions. I c	ertify and	warrant that the	10, 111101 11 1110
p. Generator Authorized Agent Name (I	<u> </u>	q. Sigr	and a	Specker		r. Date	<u>-11-13</u>	7
II. TRANSPORTER (Ge	nerator comp			nsporter completes lic-	e)			
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227								
Jack Christy		Signature	arl (<u>}</u>	e. Date	6/11/0	13	
c. Driver Name (Print) III. DESTINATION (General			and Destina	ation Site completes III				
a. Disposal Facility and Site Address:		C	US EPA Num	nber d. Discrepancy Indic	ation Spac	: .,	1	
Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866						***		
b. Phone: 812-299-9227 I herby certify that the above partied ma	aterial has been	accepted	and to the bes	t of my knowledge the foreg	oing is tru	e and acc	urate/	
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e. Name of Authorized Agent (Print)		ignature			g. Date			
IV. ASBESTOS (Generat	or completes	IVa-f ar	nd Operator	complete IVg-i)		ddenan		
a. Operator's Name and Address:				c. Responsible Agency Na	me and Ad	iniess.		
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OPERATOR'S CERTIFICATION: I here and are classified, packed, marked and national governmental regulations.	in, doctors that i	the conte in all res	nts of this cons pects in prope	signment are fully and accur r condition for transport by h	ately desc ighway ac	cording to	applicable inte	rnational and
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			1/50	15.5	6	11/	424	10

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NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\underline{\tt NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (General	tor completes	la-r)						
a. Generator's US EPA ID Number			Manifest Docur	nent Number		c. Page	1 of	***************************************
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424	***	J		e. Generator's Mailing Ac Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221				
f. Phone:317-693-8716 If owner of the generating facility differs for	rom the generato	r, prov	ride:	g. Phone:317-693-8716				
h, Owner's Name:	ts			i. Owner's Phone No.:				
j. Waste Profile #	k. Exp. Date			ping Name and	m. Co	ntainers	n. Total	o. Unit
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II. TRANSPORTER (Gene		······································		sporter completes IIc-	e)	1. Date		
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227								
Jack Christy		<u> Ja</u>	ck O	Acceptable		1/12/	/3	
c. Driver Name (Print)	d, Sigr			·	e. Date			· · · · · · · · · · · · · · · · · · ·
III. DESTINATION (Generat a. Disposal Facility and Site Address:	or complete II		US EPA Numb					
Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-298-9227		•	OO LEA NUME	d. Discrepancy muica	iion Space	#. 12. 22.		
I herby certify that the above named mater	ial has been acc	epted :	and to the best	of my knowledge the farego	ing is true	vánd agcui	ate.	
\sim //						つ[]	2/1	5 :
e. Name of Authorized Agent (Print)	f. Signa				g. Dahe	//_		
IV. (ASBESTOS (Generator	completes IVa	-fan						
a. Operator's Name and Address:				:. Responsible Agency Nam	e and Add	iress:		
b. Phone:e. Special Handling Instructions and Additional Additional Programmer (Instructions)	nnal Information:			I. Phone:				
C. Operial Flattaning Historiania and Adam	ona momaton.					•		
f. A Friable Non-Friable Both	% Fr	riable	·	% Non-Friable				•
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations.	declare that the o	conten	ts of this consid	nment are fully and accurat	ely descrit hway acco	ped above ording to a	by proper ship pplicable interr	ping name national and
							•	
g. Operator's Name and Title (Print)	h. Signa	ature			i. Date	?		·
*Operator refers to the company which own renovation operation or both	is, leases, operat	tes, co	ntrois, or super	vises the facility being demo	olished or	renovated,	or the demolit	ion or
TELEVISION AND AND AND AND AND AND AND AND AND AN	**************************************	/1	18877		10	D	30	26

TICKET GRID SYCAMORE RIDGE LANDFILL OOO01. 179877 5621 E COTTOM RD WEIGHMASTER FIMENTO IN 47866 ROBERT T DATE IN TIME IN 8:52 am 000100 12 June 2013 REWI ROLLOFF DATE OUT TIME OUT 9:09 am 12820 S CLYMINSVILLE FD 12 June 2013 PIMENTO, IN 47866 ROLL OFF KEF 34-26 REFERENCE ORIGIN Contract: 3267139622 CGAS GREENE IN 56,480.00 15 Ol Gross Weicht Intoung - SCALE TICKET Tare Weight 33,140.00 lb Net Weight 23,340.00 lb 11.67 TN DESCRIPTION RATE EXTENSION TAX TOTAL 11.67 TN SW-CONT SOIL NETAMOUNT TENDERED

SIGNATURE ...

CHANGE

CHECK NO.

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Gener a. Generator's US EPA ID Number	ator complete		Manifest Docur	nent Number			c. Page	1 of	
		"	mannoor wood	none (varibo)			U. Fage	5 I UI	
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424			A Canada - 19 Vy a manananana	e. Generator's Mai Citizens Gas 2700 South Belmo Indianapolis, IN 46	nt Ave	ress:	<u>.</u>		
f. Phone:317-693-8716									
If owner of the generating facility differs	from the genera	tor, pro	vide:	g. Phone:317-693-	8716	**			, , , , , , , , , , , , , , , , , , ,
	Julian Santa	, p	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
h. Owner's Name: i. Waste Profile #	k. Exp. Date	······	1 1 18/ 06:	i. Owner's Phone N					
1. Waste Flome #	K. Exp. Date		Description	ping Name and	3	m. Con No.	tainers Type	n. Total Quantity	o. Unit Wt/Vol
#3267 13 8622	5/28/2014	P1 4	Contaminated			· · · · · · · · · · · · · · · · · · ·	RO	1	
			(01)	+ 82/hw21	4	Į.	720		200
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GENERATOR'S CERTIFICATION: I he state law, has been properly described, waste is a treatment residue of a previous been treated in accordance with the requirements.	classified and pa usly restricted ha uirements of 40 (ickaged zardous	, and is in prope swaste sublect t	r condition for transp o the Land Disposal I	ortation : Restricti	according	to applic	able regulation	e. AND if this
DAVID GELHAUS	es/		$\leq)//$	Men			6.	12.13	
p. Generator Authorized Agent Name (P			nature /	/)			r. Date	·	7-7-3-4
II. TRANSPORTER (Gen a. Transporter's Name and Address:	erator comple	etes Tra	a-b and Trans	sporter complete:	s IIc-e)				
Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227				.,_					
c. Driver Name (Print)	d Si	gnature	h U			Date	1112	43	~-
III. DESTINATION (Genera		<u> </u>	and Destinat	on Site complete				****	***************************************
Disposal Facility and Site Address:	14/		US EPA Numb						······································
Sycamore Ridge Landfill 5621 E Cottom Drive Pimento, IN 47866		-							
o. Phone: 812-299-9227						A			
herby certify that the above named mate	eriai nas been ac	cepted	and to the best	Pfffly knowledge the	foregoin I	g is true a	and accura	ate./	
			The state of the s			(01	//E,	//3	
e. Name of Authorized Agent (Print)		pature			g	. Date (
V. ASBESTÓS (Generator	completes IV	/a4 an							
Operator's Name and Address:			c	Responsible Agency	y Name	and Addr	ess:	1	
Phone	The state of the s			-					
Phone: Special Handling Instructions and Addi	tional Information	1:		Phone:					<u></u>
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☑ Friable ☐ Non-Friable ☐ Both	6/						·		
PERATOR'S CERTIFICATION: I hereby	declare that the	Friøble Conten	ts of this considu	Non-Friable	ccurately	, describe	d above l	av propor chipe	sina nama
nd are classified, packed, marked and la ational governmental regulations.	beled and are in	all resp	ects in proper co	ondition for transport	by highw	vay accor	ding to ap	plicable interna	ational and
	<i>y</i>					0	*/~	1916	D (.
Operator's Name and Title (Print)	h. Sig	nature			<u> </u>	Date	1)(4	W 4	
Operator refers to the company which ow enovation operation or both	ns, leases, open	ates, co	ntrols, or superv	ises the facility being	demolis	shed or ne	novated)	or the demolitic	on or
			-TI-	Mard		. 1			
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SYCAMORE RIDGE LANDFILL 5621 E COTTOM RD PIMENTO IN 47866

000100 RSWI ROLLOFF 12820 S CUMMINSVILLE RD FIMENTO, IN 47866

Contract: 3267138622

SITE TICKET GRID 1.78929 $\langle 0 (00) (00)$ WEIGHMASTER ROMERT T DATEIN TIME IN 12 June 2013 1.11 #44 200 DATE OUT TIME OUT 12 June 2013 12:04 pm VEHICLE ROLL OFF REF:3426 REFERENCE ORIGIN CGAS GREENE IN

01 Gross Weight 69,480.00 lb

Tare Weight 33,360.00 lb

Inboung - SCALE TICKET

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SIGNATURE

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is $\underline{\text{NOT}}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (General	or completes	ia-r)						
a. Generator's US EPA ID Number	b.	, Manifest Document Number				c. Page 1 of		
d. Generator's Name and Location: Citizens Gas 2431 South, 275 West Bloomfield, IN 47424	***************************************	L		e. Generator's Mailing Ad Citizens Gas 2700 South Belmont Ave Indianapolis, IN 46221				_
f. Phone:317-693-8716 If owner of the generating facility differs fr	om the generate	or, prov	vide:	g. Phone:317-693-8716		····	**************************************	
h. Owner's Name:	it.			i. Owner's Phone No.:				
j. Waste Profile #	k. Exp. Date			I. Waste Shipping Name and			n. Total Quantity	o. Unit Wt/Vol
#3267 13 8622	1		Contaminated Soil 5014 Contamination		***************************************	No	1	20 yel
		·				•		
		•						
GENERATOR'S CERTIFICATION: I here state law, has been properly described, cl waste is a treatment residue of a previous been treated in accordance with the requi	assified and pacify restricted haz	kageđ ardous	, and is in prope waste subject	er condition for transportation to the Land Disposal Restric	n accordin	g to applic ertify and v	able regulation varrant that the	is; AND, if this
Ronald Spank	S	R	Qualet	Shel				
p. Generator Authorized Agent Name (Printle II. TRANSPORTER (Gene		q. Sig		anariar annulaina lla		r. Date		
a. Transporter's Name and Address: Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227	· ·	~	a o ana man	oporter completes no	<u> </u>			
c. Driver Name (Print)	7 1 8		ul ()		e. Date	6/12	113	
III. DESTINATION (Generat				ion Site completes Illo				
a. Disposal Facility and Site Address:			. US EPA Numb		•.	9:	•	
Sycamore Ridge Landfill		i	•			7	r r Tuo y F	
5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227					5 A	**;		•
I herby certify that the above named mater	ial has been ac	cepted	and to the best	of my knowledge the forego	oing is true	and accel	rate.	
		//		,	(01	211	J .
e. Name of Authorized Agent (Print)		fature			g. Date	CII	<u> </u>	
IV/ ASBESTOS (Generator	completes IV	a-Far						
a. Operator's Name and Address:	6		**************************************	c. Responsible Agency Nam	e and Add	iress:		•
b. Phone:			1	d. Phone:				
e. Special Handling Instructions and Additi	onal Information	i:			•	•	- Annie en	1 - 01.144
f. ☑ Friable ☐ Non-Friable ☐ Both	% !	riable		% Non-Friable	······································			
OPERATOR'S CERTIFICATION: I hereby and are classified, packed, marked and lab national governmental regulations.	declare that the	conter	nts of this consig	nment are fully and accura				
9							\$	
g. Operator's Name and Title (Print)	h. Sig				i. Date			
*Operator refers to the company which own renovation operation or both	ns, leases, open	ates, c	ontrols, or super	rvises the facility being dem	olished or	renovated	or the demoli	tion or
Tarra salas abar abali as salii		•	171	190	X	17	24	PUL

/SYCAMORE RIDGE LANDFILL SITE TICKET GRID 5621 E COTTOM RD OL178990 $(\mathcal{H}_{k}^{\prime})\mathcal{H}_{k}^{\prime}\mathcal{H}_{k,k}$ FIMENTO IN 47866 WEIGHMASTER FETE R 000100 DATE IN TIME IN 12 June 2013 REWI ROLLOFF SPAS con 12820 S CLIMMINSVILLE RD DATE OUT TIME OUT FIMENTO, IN 47866 12 June 2013 1:03 cm VEHICLE ROLL OFF Combract: 3267138622 <u>REF3436</u> REFERENCE ORIGIN CGAS GREENE IN O1 Gross Weight 54%580.00 lb Tare Weight 33,800.00 lb Insound - SCALE TICKET Not Weight 20,780,00 lb 10,39 TN DESCRIPTION UNIT RATE EXTENSION TAX TOTAL 10.39 TN SW-CONT SOIL NET AMOUNT TENDERED CHANGE CHECK NO. SIGNATURE

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV If waste is ${\tt NOT}$ asbestos waste, complete Sections I, II and III

I. GENERATOR (Generation	rator completes	la-r)						
a. Generator's US EPA ID Number		b. Manifest Document Number			c. Page 1 of			
d. Generator's Name and Location: Citizens Gas			e. Generator's Mailing	Address:				
2431 South, 275 West Bloomfield, IN 47424			2700 South Belmont Av Indianapolis, IN 46221	/e				
f. Phone:317-693-8716			a Dhana:217 602 9746	•			•	
if owner of the generating facility differen	s from the generato	r, provide:	g. Phone:317-693-8716			······································	· · · · · · · · · · · · · · · · · · ·	
h. Owner's Name:	ų		i. Owner's Phone No.:				₹.	
j. Waste Profile #	k. Exp. Date	I. Waste S Description	Shipping Name and	m. Co No.	ontainers Type	n. Total Quantity	o. Unit Wt/Vol	
#3267 13 8622	#3267 13 8622 5/28/2014		Contaminated Soil			,	20.00	
		3012	Contamination	<u> </u>	N	<u> </u>	20,40	
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GENERATOR'S CERTIFICATION: I he state law, has been properly described, waste is a treatment residue of a previo been treated in accordance with the red	classified and pack usly restricted haza	kaged, and is in pr ardous waste subid	oper condition for transportated to the Land Disposal Resi	ion accordir	ng to applic	cable regulation	is AND if this	
Ronald Snarks		Remarks	6) 00 00 0			13-13		
p. Generator Authorized Agent Name (FII. TRANSPORTER (Ger		g. Signature	ture r. Dat b and Transporter completes IIc-e)			ate		
Republic Services 5621 E Cottom Drive Pimento, IN 47866 b. Phone: 812-299-9227					(1.5	1>		
c. Driver Name (Print)	d. Sign	FCV U		e. Date	0/13	12	· · · · · · · · · · · · · · · · · · ·	
III. DESTINATION (General			nation Site completes II	····				
a. Disposal Facility and Site Address:		c. US EPA N			e:		7 7 7 1	
Sycamore Ridge Landfill 5621 E Cottom Drive				W. S. C.	4)			
Pimento, IN 47866 b. Phone: 812-299-9227				, 5 ° .		3 .		
I herby certify that the above named mat	terial has been acce	epted and to the b	est of my knowledge the fore	going is true	and accu	rate.		
R TUCKER	_ 0	L &	. Xder	6~	13.	- 13	•	
e. Name of Authorized Agent (Print)	f. Signa			g. Date				
IV. ASBESTOS (Generato a. Operator's Name and Address:	r completes IVa	n-f and Operato				······································		
a. Operators Name and Address.		•	c. Responsible Agency Na	me and Add	dress:			
					_			
b. Phone:			d. Phone:				1	
e. Special Handling Instructions and Add	illional Tricomation:		A CONTRACTOR OF THE PARTY OF TH		•			
f. Friable Non-Friable Bot OPERATOR'S CERTIFICATION: I hereb and are classified, packed, marked and le	y declare that the c	contents of this col	% Non-Friable signment are fully and accur er condition for transport by h	ately descri	bed above	by proper ship	pping name	
national governmental regulations.		- •		<u> </u>				
g. Operator's Name and Title (Print)	h. Signa	afure		L Doto		1		
*Operator refers to the company which e	wns, leases, operat	es, controls, or su	pervises the facility being der	i. Date nolished or	renovated	, or the demolit	ion or	
renovation operation or both				1	المنا			
			Olevo 31	126	1	- 1791	5 4,5	

SITE TICKET GRID SYCAMORE RIDGE LANDFILL 01 179045 $(\pi\pi\pi)$ 5621 E COTTOM RD WEIGHMASTER FOREINT T FIMENTO IN 47866 DATE IN TIME IN 7:00 aim 13 June 2013 000100 DATE OUT TIME OUT ASSAT ACLLOFF and Elle 13 June 2013 19820 S CLMMINSVILLE RD ROLL OFF PIMENTO, IN 47866 VEHICLE REP3426 ORIGIN REFERENCE Contract: 3267138622 CITIZENS CAS GREENE IN 66,520.00 lb Ol Gross Weight 34,520.00 lb Inbound - SCALE TICKET Tare Weight Net Weight 32,000.00 lb 16.00 TN DESCRIPTION RATE EXTENSION TAX UNIT 16.00 TN SW-CONT SOIL NETRAMOUNT TENDERED CHANGE CHECK NO. SIGNATURE Q - C

Attachment 3. Photo Documentation of Response & Remediation Activities



Rollison II Tank Battery



Rollison II Separator Tank Point of Release



Rollison II Secondary Containment Point of Release



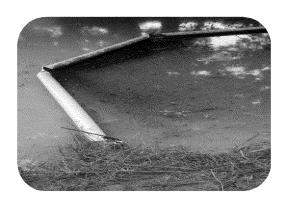
Path of Release across Rollison II Lease Road (from right to left) into Hay Field Looking West



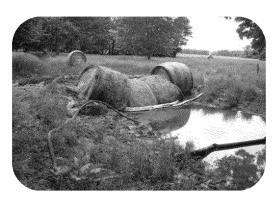
View of Hay Field Prior to Mowing Looking Southwest



Path of Release Viewed from Rollison II Lease Road Showing Flow into Hay Field Looking Southwest



The Recovery Pond Created by Earthen Dam



The Earthen Dam Constructed Early in the Incident to Prevent Material from Reaching White River



The "Trash Pump" Used to Lower the Water Level in the Recovery Pond



Straw Bales After Relocation to the West Side of Hay Field to Allow Better Equipment Access to Excavation



StrawBbales Installed at the Point Where the Ditch Turns South to Prevent Flow From the Southwest Corner of Hay Field



The South End of the Hay Field (Looking West) Alongside the Ditch Straw Bale Barrier to Prevent Flow Into the Ditch



Citizens Staff Placing Straw Bales Near the Lease Road



View of the Hay Field (Looking Southwest) From the Lease Road Showing Straw Bale Barrier and Released Material in Field



Citizens Front Loader Removing Contaminated Grass From the Hay Field for Loading Into Lined Roll-Off Dumpster



Soil Excavation and Grass Removal From the Hay Field



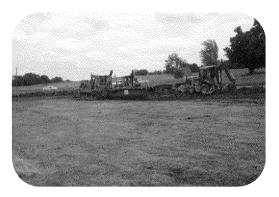
Excavated Soil Ready to be Loaded Into Lined Roll-Off Dumpsters



Citizens Operator Excavating Soil in the North End of Hay Field Next to the Rollison II Lease Road



Lined Roll-Off Dumpster Filled and Ready to be Hauled to the Landfill



Soil Excavation Work in the Hay Field



View of the Completed Soil Excavation on the East Side of the Hay Field Looking South



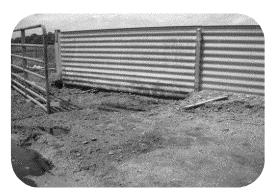
Another View of the East Side of the Soil Excavation Area (Looking South) Showing the Remaining Clean Soil



View of the Central Area of the Hay Field Looking Southwest After Completion of the Soil Excavation



View of the Completed Soil Excavation Showing the Area Looking West Along the Rollison II Lease Road and the Western Boundary of the Excavation



Picture Taken Soon After the Incident Showing Area Where Release Escaped Secondary Containment



Close-Up View From Inside the Secondary Containment Showing Clay Washout



The Repair of the Secondary Containment After Clay Reinforcement Was Added to the Outside



View of the Repair of the Secondary Containment Clay Has Been Added to Both Sides of the Barrier



Photo Showing Top of Rollison II Separator Tank which Collapsed during Release



Rollison II Separator Tank Foundation Showing Washout of Portion of Foundation



View of Tank Showing Hole and Splits in Fiberglass Bottom